							invenergy, LLG - Anegheny County Linery	,									
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	ST. CHARLES POWER		SCPS Combined					Selective Catalytic Reduction (SCR) with Dry Low NOx Burners (DLNB) during normal operations; Good Combustion Practices during			HOURLY			ANNUAL.			4-HOUR
LA-0313	STATION	8/31/2016	Cycle Unit 1A	Natural Gas	3625	MMBTU/hr		Startup/Shutdown operations.	26.91	LB/H	MAXIMUM	109.5	1 T/YR	MAXIMUM	15	PPM@15% O2	AVERAGE
			FGCTGHRSG (2				There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with best recovery steam generators (HRSG) identified as BUCTGHRSG) & EUCTGHRSG. The the Receiving post PCGTGHRSG. The test boson for fautura and abduedows for each time ishall not exceed 500 loone per 12-min shall n							OPERATING HR DURING			
			Combined Cycle				duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both	SCR with DLNB (selective catalytic			24-H ROLLING			STARTUP OR			
MI-0423	NDECK NILES, LLC HOLLAND BOARD OF	1/4/2017	CTGs with HRSGs) FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10	Natural gas	8322	MMBTU/H	trains. Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG).	reduction with dry low NOx burners)	38.1	LB/H	AVERAGE	284	6 LB/H	SHUTDOWN			
MI-0424	PUBLIC WORKS - EAST 5TH STREET	I 12/5/2016	& EUCTGHRSG11) FGCTGHRSG	Natural gas	554	MMBTU/H, each	recovery steam generators (HISSO) (EUC IGHRNG10 & EUC IGHRNG11 in FUC IGHRNG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period.	Selective catalytic reduction with dry low NOx burners (SCR with DLNB).	3	PPM AT 15% O2	24-H ROLLING AVG; EACH EU	8.11	8 LB/H	24-H ROLLING AVG; EACH EU	(
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		Startup/Shutdown (2 combined cycle CTGs with HRSGs; EUCTGHRSG10 & DESCRIPTION (2017)	:			Two combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (ffRSG) (EUCTGHRSG)0 & EUCTGHRSG)1 in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period.	Selective catalytic reduction with dry low			OPERATING HOUR DURING STARTUP; EACH			OPERATING HOUR DURING SHUTDOWN;			
MI-0424	STREET	12/5/2016	EUCTGHRSG11)	Natural gas	554	MMBTU/H; EACH	This process group is to identify emission limits during startup and shutdown. 3421 MMBTU/H for each turbine and 740 MMBTU/H for each duct burner for a combined	NOx burners (SCR with DLNB).	43.7	LB/H	EU	43.	1 LB/H	EACH EU	(
			FGCTGHRSG (2 Combined Cycle				3421 MMBTUH for each turbine and 740 MMBTUH for each dust burner for a combined throughput of 4161 MMBTUH for 822 MMBTUH for both trains. Two combined-sycle natural gas-fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (IREG) (EUCTGHRSG) & EUCTGHRSG). The total hours for startup and shudom for each train sall not exceed 500 boss per 12-month fulling time	SCR with DLNB (Selective Catalytic			AT 15%O2; 24-			24-HR ROLL			
*MI-0431	INDECK NILES LLC	6/26/2018	FG-TURB/DB1-3 (3	Natural gas	3421	MMBTU/H	period.	Reduction with Dry Low NOx Burners)	2	PPM	HR ROLL AVG	38.	l LB/H	AVG.	(
*MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	combined cycle combustion turbine and heat recovery steam generator	Natural gas	1230	MW	Three (3) combined-cycle combustion turbine (CT) heat recovery steam generator (HRSG) trains. Each CT is a natural gas fixed Missubishi model 501G, equipped with dry low NOx combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fixed duet banner with a 254 MMBully heat inque capacity and ad vivo NOx burner.	Good combustion practices, DLN burners and SCR.	2	PPMVD	AT 15%O2; EACH INDIV. CT/HRSG TRAIN	22.	4 LB/H	EACH INDIV. CT/HRSG TRAIN 24-H ROLL AVG	į;		
MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 Startup/Shutdown 8 Operations EUCTGHRSG	Natural gas	1230	MW	Three (3) combined-cycle combustion turbine (CT) heat recovery steam generator (HRSG) trains. Each CT is a natural gas fixed Misashishi model 501G, equipped with dry low NOx combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fixed duet barner with a 256 MMBTUH heat inter quenty and a dy low NOx burner. This securatio identifies the emission limits applicable during startup and shutdown operations.	Good combustion practices, DLN burners and SCR.	249	LB/H	EACH CT/HRSG TRAIN;STARTUI /SHUTDOWN	3	0				
	MEC NORTH, LLC AND		EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery stems generator (HRSG) in a 1xl configuration with a stems turbine generator (STG) for a stem	SCR with DLNB (Selective catalytic			AT 15%O2; 24- HR ROLL AVG			24-H ROLL AVG			
*MI-0433	MEC NORTH, LLC AND	629/2018	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam	Natural gas		MW	with dy tow Nok humer (DLNB), SCR and an oxidation catalyst. Nominal 500 MW electricity production. Turbine rating of 3,000 MMBTUhr (HHV) and HRSG dust burner rating of 755 MMBTUhr (HHV). A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery continued to the control of the streng pentage (HRSG) in a 1-1x continued toward to the streng pentage (FGG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,000 MMBTUhr (HHV). The HRSG is ingrapped with an antural gas-fred duct burner rated at 755 MMBTUhr (HHV) at ISO conditions to provide beat for additional stem production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a natural government of the strength of the strengt	reduction with dry low NOx burners). SCR with DLNB (Selective catalytic		PPMV	NOT S.S. AT 15%02; 24-H ROLL AVG; NOT		7 LB/H	24-H ROLL AVO NOT STARTUP/SHUT	;		
*MI-0433	MEC SOUTH LLC	6/29/2018	generator.	Natural gas	500	MW	with dry low NOx burner (DLNB), SCR, and an oxidation catalyst. Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	reduction with Dry Low NOx burners).	2	PPMVD	S.S.	29.	7 LB/H	DOWN (SS)	(+
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	Natural gas	0		recovery steam generator (CTGHRSG). Plant nominal 1,15 MW extrictivity production. Turbines are each rated at 3,658 MMBTU/H and HRSG date burners are each rated at 800 MMBTU/H. The HRSGs are not capable of operating independently from the CTGs.	SCR with DLNB (Selective catalytic reduction with dry low NOx burners).	2	PPMVD	AT 15%O2; 24-H ROLL AVG; EACH UNIT;	28.9	9 LB/H	24-H ROLL AVG EACH UNIT; NOT S.S.	;		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	3// (20)/	FGCTGHRSG (EUCTGHRSG1 & amp; EUCTGHRSG2) Startup & amp; 8 Shutdown	Natural			This section is the startup and shatdown emission limits for FGCTGHRSG. Two 3,658 MMBTU/H matural gas-fired combustion turbine generators (CTGs) coupled with heat recovery steam generators (HRSGs). The HRSGs are equipped with natural gas-fired duct-burners need at 800 MMBTU/H to provide hear for additional steam production. The HRSGs	SCR with DLNB (Selective catalytic	200	I.B/H	EACH UNIT; OPERATING HOUR DURING						
-MI-0435	JOHNSONVILLE	7/16/2018	Natural Gas-Fired	Natural gas	0		are not capable of operating independently from the CTGs. Turbine throughput is 1019.7 MMBtuhr when burning natural gas and 1083.7 MMBtuhr	reduction with dry low NOx burners).	262.4		S.S. 30 UNIT- OPERATING-	<u> </u>	DDM GVD @ 1500	15 UNIT- OPERATING-			
TN-0162	JOHNSONVILLE COGENERATION GAINES COUNTY POWER PLANT	4/19/2016 4/28/2017	Combustion Turbine 5 with HRSG Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine (Generator)	Natural Gas NATURAL		MMBtu/hr MW	when burning No. 2 oil. Duct burner throughput is 319.3 MMBtuhr. Duct burner firing will occur during natural gas combustion only. Four Siemens SCT6-5000FS natural gas fired combustion turbines with HRSGs and Steam	Good combustion design and practices, selective catalytic reduction (SCR) Selective Catalytic Reduction (SCR) and Data Law Mon bower Reduction (SCR) and	2	02	DAY MOVING AVERAGE		PPMVD @ 15% 8 O2	DAY MOVING AVERAGE			
	GREENSVILLE POWER		Generator COMBUSTION TURBINE GENERATOR WITH DUCT- FIRED HEAT RECOVERY STEAM	UAS			Turbine Generators	Dry Low NOx burners		PPMVD							
*VA-0325	STATION	6/17/2016	GENERATORS (3)	natural gas	3227	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	SCR	2	PPMVD	1 HR AVG	(0		(

						1							1				
RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	DRACESS VATES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
RBLCID	FACILII Y NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	Nominal 640 mWe	DESCRIPTION	LIMIT I	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
	HARRISON COUNTY						All emission limits steady-state and include 1000 mmBtu/hr Duct Burner in operation				1-HOUR						
*WV-0029	POWER PLANT INTERNATIONAL STATION	3/27/2018	GE 7HA.02 Turbine GE LM6000PF-25	Natural Gas	3496.2	mmBtu/hr	Short Term startup and shutdown limits in lb/event given in permit.	Dry-Low NOx Burners, SCR Selective Catalytic Reduction and Dry	32.9	LB/HR	AVERAGE 4-HOUR	156.2	TONS/YEAR			PPM	
AK-0071	POWER PLANT	12/20/2010	Turbines (4)	Natural Gas	59900	hp ISO	Turbine-duct burner pairs exhaust through common stack	Low NOx Combustion		ppmvd	AVERAGE	())	
								Turbines EU IDs 5 through 8 shall be									
								equipped with Selective Catalytic Reduction and Dry Low NOx (SCR and									
								DLN) combustors. SCR is a post-									
								combustion gas treatment technique for									
								reduction of nitric oxide (NO) and nitrogen dioxide (NO2) in the turbine									
								exhaust stream to molecular nitrogen,									
								water, and oxygen. This process is									
								accomplished by using ammonia (NH3) as a reducing agent, and is injected into									
								the flue gas upstream of the catalyst bed.									
								By lowering the activation energy of the									
								NOx decomposition removal efficiency o	ď								
								80 to 90 percent are achievable. DLN combustors utilize multistage premix									
								combustors where the air and fuel is									
								mixed at a lean fuel to air ratio. The excess air in the lean mixture acts as a				1			1		
				1				excess air in the lean mixture acts as a heat sink, which lowers peak combustion			1	1			1		
								temperatures and also ensures a more				1			1		
	DETERMINATION OF COLUMN			1				homogeneous mixture, both resulting in			1	1			1		
AK-0073	INTERNATIONAL STATION POWER PLANT	12/20/2010	Fuel Combustion	Natural Gas	59900	HP	EU IDs 5-8 Combined Cycle Natural Gas-fired Combustion Turbines rated at 59,900 hp (44.7 MW)	greatly reduced NOx formation rates. DLN can reduce emissions by about 60%	.1 .	ppmvd	4-HOUR	"	,			a	
	POWER PLANT BLYTHE ENERGY PROJECT		2 COMBUSTION	NATURAL				SELECTIVE CATALYTIC		T	AT 15% O2, 3-HI	1			<u> </u>		
CA-1144	II OTAY MESA ENERGY	4/25/2007	TURBINES Gas turbine	GAS	170	MW	EACH TURBINE WILL PRODUCE 170 MW	REDUCTION	+	ppmvd	AVG	14.8	lb/hr	-	-	4	
CA-1177	CENTER LLC	7/22/2009	combined cycle	Natural gas	171.7	MW		SCR		ppmvd	1 HOUR	()	
							Source test results:										
CA-1178	APPLIED ENERGY LLC	3/20/2009	Gas turbine	Natural gas			1.45 ppm NOx @ 15% O2 or 2.19 lb/hr <0.22 ppm VOC @15%O2 or <0.12 lb/hr	SCR		nnmad	1 HOUR					a	
C.12-117-0	AT LILD LIGHT LLC	5/20/2007	combined cycle COMBUSTION	Tuturui gus	—		S.L. ppin voc (6) 57/02 or -0.12 form	J.C.K.		- Inpairte	THOOK	—					
			TURBINE #2 (NORMAL														
			OPERATION,								@15% O2, 1-HR						
	VICTORVILLE 2 HYBRID		WITH DUCT	NATURAL							AVG (W/ DUCT			1-HR AVG (W/			
CA-1191	POWER PROJECT	3/11/2010	BURNING) COMBUSTION	GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	SCR	+	ppmvd	BURNING)	14.6	PPMVD	DUCT BURNING) (4	
			TURBINE #1														
			(NORMAL														
	VICTORVILLE 2 HYBRID		OPERATION, WITH DUCT	NATURAL							@15% O2, 1-HR AVG (W/ DUCT			1-HR AVG (W/			
CA-1191	POWER PROJECT	3/11/2010	BURNING)	GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	SCR		ppmvd	BURNING)	14.6	lb/hr	DUCT BURNING) ()	
			COMBUSTION TURBINE #1														
			(NORMAL														
			OPERATION.														
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	WITH DUCT BURNING)	NATURAL	100	MW		SCR, DRY LOW NOX COMBUSTORS		.l	@15% O2, 1-HR	173	11.4	1-HR AVG		0	
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	COMBUSTION	GAS	100	NW		SCR, DRT LOW NOA COMBUSTORS	<u> </u>	ppmvu	AVG	17.4	10/nr	I-HR AVG	,	+	
			TURBINE #2 (NORMAL														
			OPERATION.														
			WITH DUCT	NATURAL							@15% O2, 1-HR						
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	BURNING) COMBUSTION	GAS	180	MW		SCR, DRY LOW NOX COMBUSTORS	4	ppmvd	AVG	17.2	lb/hr	1-HR AVG		1	
			TURBINE									1			1		
			GENERATOR, 2	L							l	1			1		
CA-1195	ELK HILLS POWER LLC	1/12/2006	units (Normal	NATURAL GAS	166	MW	Each CTG system will generate 166 MW under design ambient conditions with steam power augmentation from the duct burners, and 153 MW without steam augmentation.	SCR OR SCONOX, DRY LOW NOX COMBUSTORS	,.	nomyd	@15% O2, 1-HR AVG	15.8	lb/hr	1-HR AVG		a	
		2.12/2000	COMBUSTION		100		Mari Outros, and 155 Mr. Transa soun augustilation.		1	Trans.	1	13.0		- INCATO	1		
			TURBINE GENERATORS					DRY LOW NOX BURNERS (LNB),				1			1		
	HIGH DESERT POWER		(NORMAL	NATURAL			THREE (3) COMBUSTION TURBINE GENERATORS AT 190 MW EACH AND	SELECTIVE CATALYTIC			@15% O2, 1-HR	1			1		
CA-1209	PROJECT	3/11/2010	OPERATION)	GAS	190	MW	EQUIPPED WITH A 160 MMBTU/HR DUCT BURNER AND HRSG	REDUCTION (SCR)	2.:	ppmvd	AVG	18	lb/hr	1-HR AVG	(1	
			COMBUSTION TURBINES					DRY LOW NOX BURNERS (LNB),				1			1		
	COLUSA GENERATING		(NORMAL	NATURAL			TWO (2) NATURAL GAS FIRED TURBINES AT 172 MW EACH. BOTH TURBINES	SELECTIVE CATALYTIC			@15% O2, 1-HR	1		1-HR ROLLING	1		
CA-1211	STATION	3/11/2011	OPERATION)	GAS	172	MW	EQUIPPED WITH A 688 MMBTU/HR DUCT BURNER AND HRSG. TWO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATED	REDUCTION (SCR)	1 -	ppmvd	ROLLING AVG	19.6	lb/hr	AVG	-	4	
			COMBUSTION				AT 154 MEGAWATT (MW, GROSS) EACH, TWO HEAT RECOVERY STEAM					1			1		
			TURBINES				GENERATORS (HRSG), ONE STEAM TURBINE GENERATOR (STG) RATED AT 267	DRY LOW NOX (DLN)				1			1		
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	(NORMAL OPERATION)	NATURAL	120	MW	MW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH ASSOCIATED HEAT-TRANSFER EQUIPMENT	COMBUSTORS, SELECTIVE CATALYTIC REDUCTION (SCR)	1 .	nomed	@15% O2, 1-HR AVG	1 .	J		1 .	a	
CAVILIZ	I O HER I ROJECT	10/18/2011	COMBUSTION	0.10	134		ASSOCIATION TO TRANSPER EQUI MENT	CALLETTIC REDUCTION (SCR)	<u> </u>	- Davieru		1	1		1		
			TURBINES (COMBUSTOR				FOUR (4) NATURAL GAS FIRED COMBINED CYCLE COMBUSTION TURBINES,	1991 MMBTU/HR DRY LOW NOX			1-HR AVG (COMBUSTOR	1			1		
	MOUNTAINVIEW POWER		TUNING	NATURAL			EACH EOUIPPED WITH A 135 MMBTU/HR DUCT BURNER AND HRSG, AND EACH	COMBUSTORS, SELECTIVE			TUNING	1			1		
CA-1213	COMPANY LLC	4/21/2006	PERIODS)	GAS	175.7	MW EA.	RATED AT 175.7 MW	CATALYTIC REDUCTION (SCR)	81	lb/hr	PERIODS)	())	
I			NATURAL-GAS FIRED														
	ROCKY MOUNTAIN		COMBINED-	NATURAL			ONE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING					1			1		
CO-0056	ENERGY CENTER, LLC	5/2/2006	CYCLE TURBINE	GAS	300	MW	FACILITY.	LOW NOX BURNERS AND SCR	1	ppmvd	HOURLY MAX	0.013	LB/MMBTU	SEE NOTE	1	3 PPM @ 15% O2	
	PUEBLO AIRPORT		Four combined cycle combution				Three GE, LMS6000 PF, natural gas-fired, combined cycle CTG, rated at 373 MMBtu per	Dry Low NOx (DLN) Combustor and				1		30-DAY	1		
*CO-0073	GENERATING STATION	7/22/2010	turbines	natural gas	373	mmbtu/hr	hour each, based on HHV and one (1) HRSG each with no Duct Burners	Selective Catalytic Reduction (SCR)	:	ppmvd	1-HR AVE	4.1	lb/hr	ROLLING AVE)	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			SIEMENS SGT6-														
			5000F COMBUSTION														
			TURBINE #1 AND														
			#2 (NATURAL GAS FIRED) WITH	1			Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.										
	KLEEN ENERGY SYSTEMS,		445 MMBTU/HR NATURAL GAS	NATURAL			These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	LOW NOX BURNER AND SELECTIVE CATALYTIC			W/OUT DUCT			W/DUCT			
CT-0151	LLC	2/25/2008	DUCT BURNER	GAS	2.1	MMCF/H	burners.	REDUCTION	15.5	lb/hr	BURNER	16.	.2 lb/hr	BURNER	2	PPM @ 15% O2	1-HR BLOCK
							500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr							@ 15% OXYGEN			
	NRG ENERGY CENTER						Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified							BASED ON A 1			
PDE-0023	DOVER	10/31/2012	UNIT 2- KD1	Natural Gas	655	MMBTU/H	CEMS and COMS.	Selective Catalytic Reduction	5.76	lb/hr	1 HR AVERAGE HOURLY AS	2.	5 PPMVD	HOUR AVERAGE 3 HOUR	0		
	GARRISON ENERGY							Low NOx Combustors, Selective			BASELOAD ON			AVERAGE ON			
DE-0024	CENTER	1/30/2013	Unit 1	Natural Gas	2260	million BTUs		Catalytic Reduction	2	ppmvd	NAT. GAS		6 PPMVD	ULSD OIL	0		
							GENERATING CAPACITY: EACH OF THE FOUR GAS TURBINES HAS A NOMINAL GENERATING CAPACITY OF 170 MW FOR GAS FIRING (180 MW FOR GAI FIRING). EACH OF THE FOUR HEAT RECOVERY STEAM GENERATORS (HESCS) PROVIDES STEAM TO THE SHOLE SHEET STEAM TO THE SHOLE STEAM TO THE SHOLE STEAM TO THE AND SHOLE STEAM TO THE AND SHOLE SHEET SHEET SHOULD SHEET SH	NOX EMISSIONS WILL BE REDUCED WITH DRY LOW-NOX (DLN) COMBILISTION TECHNOL OGY FOR									
			170 MW COMBUSTION				AND ULTRA LOW SULPUK (1993) SULPUK) DISTILLATE OIL AS A RESTRICTED ALTERNATE FUEL. EMISSIONS OF ALL POLLUTANTS INCREASE WITH THE FIRING OF OIL. THE APPLICANT REQUESTS 500 HOURS PER YEAR PER GAS TURBINE (OR EQUIVALENT) FOR OIL FIRING.	GAS FIRING AND WATER INJECTION FOR OIL FIRING. IN COMBINATION WITH THESE NOX			24 UB (ALI			STACK TEST			STACK TEST (C
	FPL TURKEY POINT		TURBINE, 4	NATURAL			MODES OF OPERATION: STANDARD NORMAL OPERATION, WITH DUCT	CONTROLS, A SELECTIVE CATALYTIC REDUCTION (SCR)			24-HR (ALL MODES OF			NORMAL			& DUCT
FL-0263	POWER PLANT	2/8/2005	COMBINED	GAS NATURAL	170	MW	BURNER, POWER AUGMENTATION AND PEAKING.	SYSTEM FURTHER REDUC	2	ppmvd	OPERATION)		2 PPMVD	OPERATION	2	PPM @ 15 % O2	BURNER)
FL-0265	HINES POWER BLOCK 4	6/8/2005	CYCLE TURBINE		530	MW		SCR	2.5	ppmvd	NATURAL GAS	1	0 PPMVD	OIL	2.5	PPM @ 15% O2	
-			COMBINED CYCLE														
FL-0285	PROGRESS BARTOW POWER PLANT	1/26/2007	COMBUSTION TURBINE SYSTEM (4-ON-1)	NATURAL GAS	1972	MMBTU/H	1876 MMBTU/HR WHEN FIRING DISTILLATE FUEL OIL. THE SYSTEM NOMINAL CAPACITY 1280 MW. EACH UNIT NOMINAL CAPACITY 215 MW (ISO) WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATOR. 2177 MMBTU/HR FUEL OIL.	WATER INJECTION	15	ppmvd	30-DAYS BASIS NATURAL GAS	. 4	12 PPMVD	30-DAYS BASIS - DISTILLATE FUEL OIL	0		
			COMBINED CYCLE COMBUSTION				EACH COMBINED CYCLE UNIT SYSTEM (TWO «,« Alaquo; Alaquo, Alaquo; WILL CONSIST OF: THERE NOMINAL 250 MEGAWATT MODEL 501G GAS TURBINE-ELECTRICAL GENERATOR SETS WITH EVPORATIVE NUEL TOOLING SYSTEMS, THERE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM GENERATORS, (HISRAĞ, S), WITH SER REACTORS; ONE NOMINAL 428 MMBTUHOUR (LHV) GAS-FIRED DUCT BURNER LOCATED WITHIN EACH OF THE THERE HISRAĞ, ST. RITREE 1 HYBEGE TERHALDS TAKES, ONE 26 CELL THE METHERE HISRAĞ, ST. RITREE 1 HYBEGE TERHALDS TAKES, ONE 26 CELL TOOL THE THERE HISRAĞ, ST. RITREE 1 HYBEGE TERHALDS TAKES, ONE 26 CELL TOOL THE THERE HISRAĞ, ST. RITREE 1 HYBEGE TERHALDS TAKES, ONE 26 CELL TOOL THE THERE HISRAĞ, ST. RITREE 1 HYBEGE TERHALDS TAKES, ONE 26 CELL TOOL THE THERE HISRAĞ, ST. RITREE 1 HYBEGE TERHALDS TAKES, ONE 26 CELL TOOL THE THERE HISRAĞ, ST. RITREE 1 HYBEGE TERHALDS TAKES, ONE 26 CELL THE										
FL-0286	FPL WEST COUNTY ENERGY CENTER	1.10.000	GAS TURBINES -	NATURAL		MMBTU/H	MECHANICAL DRAFT COOLING TOWER; AND A COMMON NOMINAL 500 MW	DRY LOW NOX AND SCR WATER INJECTION			24-HR (GAS)		8 PPMVD	24-HR (OIL)			
L-0286	ENERGY CENTER	1/10/200	6 UNIIS	GAS	2353	MMB1U/H	STEAM-ELECTRICAL GENERATOR. FUELHEAT INPUT RATE (LHV): OIL2,117 MMBTU/H	WATER INJECTION		ppmvd	24-HR (GAS)		SPPMVD	24-HR (OIL)	0		
FL-0303	FPL WEST COUNTY ENERGY CENTER UNIT 3	7/30/2008	THREE NOMINAL 250 MW CTG (EACH) WITH SUPPLEMENTAR 3 Y-FIRED HRSG	NATURAL GAS	2333	MMBTU/H	COMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE MOMINAL 250 MW COMBISTION TURRINE-ELECTREAC, GENERATORS (CTO) WITH EVAPORATIVE INLET COOLING SYSTEMS, THREE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM GENERATORS (HIRSG) WITH SELECTIVE CATALYTIC REDUCTION (SCR) REACTORS AND A COMMON NOMINAL 500 MW STEAM-ELECTRICAL GENERATOR.	DRY LOW NOX SELECTIVE CATALYST REDUCTION	,	romed	24 HOURS		8 PPMVD	24 HOURS			
L-0303	ENERGY CENTER ONLY	7/30/2008	300 MW	UAS	2333	MINIDICAL	UEVERATOR.	SELECTIVE CATALIST REDUCTION		ppinva	24 1100 K3		SITMVD	24110013			
			COMBINED CYCLE														
	CANE ISLAND POWER		COMBUSTION	NATURAL													
FL-0304	PARK	9/8/2008	TURBINE	GAS	1860	MMBTU/H	Basis for the emission standard is either NSPS Subpart KKKK or Department BACT	SCR	2	ppmvd	24-HR		0	-	0		
							determinations. The BACT emission standards for NOX while operating in combined cycle are more stringent than the corresponding Subpart KKKK emissions standards of 15 and 42 ppmvd @15% O2 on				24-HR BLOCK			24-HR BLOCK			
FL-0337	POLK POWER STATION	10/14/2012	Combine cycle power block (4 on 1) COMBINED	natural gas	1160	MW	a 30-day rolling average for natural gas and fuel oil, respectively.	SCR/DLN	2	ppmvd	(GAS) CEMS		8 PPMVD	(OIL) CEMS	0		
			COMBINED CYCLE COMBUSTION TURBINE - ELECTRIC					DRY LOW NOx BURNERS,			3 HOUR			12 CONSECUTIVE MONTH			
			GENERATING	NATURAL				SELECTIVE CATALYTIC			AVERAGE/CONI)		AVERAGE/COND			
GA-0138	LIVE OAKS POWER PLANT	4/8/2010	PLANT COMBUSTION	GAS	600	MW		REDUCTION SELECTIVE CATALYTIC	2.5	ppmvd	ITION 2.11	8	7 T/YR	ITION 2	0	1	
			TURBINE,					REDUCTION (SCR),									
	LANGLEY GULCH POWER		COMBINED CYCLE W/ DUCT	NATURAL			SIEMENS SGT6-5000F COMBUSTION TURBINE (NGCT, CCGT) FOR ELECTRICAL	DRY LOW NOX (DLN), GOOD COMBUSTION PRACTICES			3-HR ROLLING /			3-HR ROLLING / 15% O2 DURING			
D-0018	PLANT	6/25/2010	BURNER	GAS (ONLY)	2375.28	MMBTU/H	GENERATION, NOMINAL 269 MW AND 2.1466 MMSCF/HR	(GCP)	2	ppmvd	15% O2	9	6 PPMVD	SU/SD/LL	0		
											HOURLY AVG EXCEPT						
			Electric Generation				Two combined cycle combustion turbines followed by HRSGs with capability for supplemental				DURING SSM OF	1					
PIL-0112	NELSON ENERGY CENTER	12/28/2010	Facility	Natural Gas	220	MW each	fuel firing in HRSG for each combustion turbine using duct burners. EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS	SCR and Low-NOx Combustors	4.5	ppmvd	TUNING		ð .	+	0		
	ST. JOSEPH ENEGRY		FOUR (4) NATURAL GAS COMBINED CYCLE COMBUSTION	NATURAL			FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR DEDNTHEID AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR#) ALONG WITH CO AND VOC EMISSIONS CONTROLLED BY OXIDATION CATAYLIST SYSTEMS (CAT#) IN EACH TURBUE. EACH STACK HAS CONTROLOS EMISSIONS MONTIORS FOR	SELECTIVE CATALYTIC REDUCTION AND DRY LOW NOX									
IN-0158	CENTER, LLC	12/3/2012	TURBINES	GAS	2300	MMBTU/H	NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	BURNERS	2	ppmvd	3 HOURS HOURLY		0	HOURLY	0	1	
114-0136			(4) GAS				VISUAL INSPECTION FOR OPACITY ON A WEEKLY BASIS, STACK	DRY LOW NOX BURNERS,			MAXIMUM -			MAXIMUM -			
10-0136		1	TURBINES/DUCT	NATURAL	2076	MMBTU/H	TESTS FOR PM, NOX, SO2, OPACITY, CO EMISSION POINTS GT-500, -600, -700, -800.	SELECTIVE CATALYTIC REDUCTION	240	llh/hr	NORMAL OPERATION	40	O Ilh Aus	STARTUPS / SHUTDOWNS		PPMVD @ 15%	ANNUAL AVERAGE
	PLAQUEMINE COGENERATION FACILITY	7/22/2009	RIBNERS														A CONTROL
LA-0136	PLAQUEMINE COGENERATION FACILITY	7/23/2008	BURNERS	GAS	28/6	MMB10/H	EMISSION FORM S G1-500, -000, -100, -800.	LOW NOX BURNERS AND	240				O IOIE			02	
	COGENERATION FACILITY	7/23/2008	GAS TURBINES -	GAS		MMBTU/H	LMISSION FORVES (11-200, 4000, 7100, 4000.	LOW NOX BURNERS AND SELECTIVE CATLYTIC REDUCTION (SCR) ADD-ON CONTROLS	21.8	lb/hr	HOURLY MAXIMUM	05	.5 T/YR	ANNUAL MAXIMUM	3	PPM	ANNUAL AVERAGE
LA-0136				NATURAL.			CTG-I TURRINF/M/CT RURNER (FOT012)	LOW NOX BURNERS AND SELECTIVE CATLYTIC REDUCTION	21.8	lb/hr	HOURLY	95.	5 T/YR	ANNUAL	3	PPM	ANNUAL AVERAGE

				1													
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			Combined Cycle						i								
	SABINE PASS LNG		Refrigeration Compressor								HOURLY						
LA-0257	TERMINAL	12/6/201	l Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4 TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE	water injection	22.94	lb/hr	MAXIMUM)		20	PPMV	AT 15% O2
			2 COMBINED-				COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF				3-HOUR BLOCK			3-HOUR BLOCK	.		
			CYCLE COMBUSTION	NATURAL			725 MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EOUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR. OXIDATION	DRY LOW-NOX COMBUSTOR DESIGN AND SELECTIVE			AVERAGE, EXCLUDING			AVERAGE, EXCLUDING			
*MD-0041	CPV ST. CHARLES	4/23/201	4 TURBINES	GAS	725	MEGAWATT	CATALYST	CATALYTIC REDUCTION (SCR)	2	ppmvd	SU/SD	21.1	7 lb/hr	SU/SD	(,	
			2 COMBINED				TWO MITSUBISHI ' ' G' MODEL COMBUSTION TURBINE	USE OF DRY LOW-NOX									
			CYCLE				GENERATORS (CTS) WITH A NOMINAL GENERATING CAPACITY OF 270 MW	COMBUSTOR TURBINE DESIGN ,			3-HOUR BLOCK						
	WILDCAT POINT		COMBUSTION TURBINES, WITH	NATURAL			CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EOUIPPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS.	USE OF PIPELINE QUALITY NATURAL GAS DURING NORMAL			AVERAGE, EXCLUDING			FOR ALL			
*MD-0042	GENERATION FACILITY	4/8/201		GAS	1000	MW	SELECTIVE CATALYTIC REDUCTION (SCR), OXIDATION CATALYST	OPERATION AND SCR SYSTEM	2	ppmvd	SU/SD	870	LB/EVENT	STARTUPS	()	
							EACH TURBINE IS EQUIPPED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG). EACH HRSG IS EQUIPPED WITH A NATURAL GAS FIRED DUCT BURNER										
			3 COMBUSTION TURBINES AND	NATURAL			(650 MMBTU/H). TOTAL NOMINAL PLAN GENERATING CAPACITY WITHOUT DLCT FIRING IS 800 MW. A MAX OLITPLIT OF 1100 MW. THROUGH	DRY LOW NOX BURNERS AND SELECTIVE CATALYTIC			24-HOUR ROLLING AVG			ALL TURBINES			
MI-0366	BERRIEN ENERGY, LLC	4/13/200	5 DUCT BURNERS	GAS	1584	MMBTU/H	SUPPLEMENTAL FIRING OF HRSGS.	REDUCTION.	2.5	pomyd	EACH HOUR	239.4	T/YR	COMBINED	2.5	PPM @ 15% O2	
			Combined cycle				This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator (HRSG).										
			combustion turbine								24-HR ROLLING			24-HR ROLLING			
*MI-0402	SUMPTER POWER PLANT	11/17/201	l w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG	Low NOx burners	9	ppmvd	AVERAGE	36.9	lb/hr	AVERAGE	()	
			l														
			Natural gas fueled combined cycle				Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam										
			combustion turbine				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected										
*MI-0405	MIDLAND COGENERATION VENTURE		generators (CTG) 3 with HRSG	Natural gas	2237	MMBTU/H	to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and a selective catalytic reduction (SCR) system.	Dry low NOx (DLN) burner and selective catalytic reduction (SCR) system.	2	pomyd	EACH CTG; 24-H ROLLING AVG.	16.3	2 lb/hr	EACH CTG; 24-F ROLLING AVG.	1	,	
							This process is permitted in a flexible group format, identified in the permit as FG-CTG/DB1-2			,,,,,,,							
							and is for two natural gas fired CTGs with each turbine containing a heat recovery steam										
			Natural gas fueled combined cycle				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and										
			combustion turbine				a selective catalytic reduction (SCR) system. Additionally, the HRSG is operating with a										
	MIDLAND COGENERATION		generators (CTG) with HRSG and duc				natural gas fired duct burner for supplemental firing.	Dry low NOx (DLN) burners and selective catalytic reduction (SCR)			24-H ROLLING			24-H ROLLING			
*MI-0405	VENTURE	4/23/201		Natural gas	2486	MMBTU/H	The throughput is 2,486 MMBTU/H for each CTG/DB. Natural gas fired CTG with DB for HRSG; 4 total.	system.	2	ppmvd	AVG	1:	8 lb/hr	AVG	()	
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
							Permit was issued for either of two F Class turbine technologies with slight variations in										
							emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG										
	THETEORD GENERATING		FGCCA or FGCCB- 4 nat. gas fired CTG			MMBTU/H heat input,	trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up	Low NOx burners and selective catalytic			24-H ROLLING						
*MI-0410	STATION	7/25/201	3 w/ DB for HRSG	natural gas	2587	each CTG	to 1,400 MW.	reduction.	3	ppmvd	AVERAGE	761	lb/hr	1-H AVERAGE	()	
			COMBINED														
			CYCLE				COMBUSTION TURBINE PERMITTED TO USE NG & NO. 2 OIL: DUCT BURNER	DRY LOW NOX COMBUSTION FOR NG: WATER INJECTION FOR NO.2			3-HR AVG CTG			3-HR. AVG CTG			
			TURBINE	NATURAL			PERMITTED TO USE NG & NO. 2 OIL. DUCT BURNER ALSO AUTHORIZED TO	OIL; SCR W/NHZ INJECTION IN			& DB NAT. GAS			FUEL OR NO			3-HR. AVG CTG
MN-0071	FAIRBAULT ENERGY PARK	6/5/200	7 W/DUCT BURNER	GAS	1758	MMBTU/H	COMBUST LIQUID BIOFUEL. Each of these units have a natural gas-fired heat recovery	HRSG FOR BOTH NG & NO. 2 OIL.	3	ppmvd	OR DB NO OPE		PPMVD	OPE	4.5	PPMVD	NG, DB OIL
							steam generator and a natural gas-fired duct burner. Each										
							CT combusts natural gas as the primary fuel and very low- sulfur No. 2 fuel oil as a backup fuel. The use of fuel										
			TURBINE,				oil is limited to 1,200 hours per year and only during the				24 HOUR			24 HOUR			
			COMBINED CYCLE.				months of November through March, and is listed as a separate process. These units are listed	DRY LOW-NOX COMBUSTORS AND	.		ROLLING AVERAGE.			ROLLING AVERAGE.			
			NATURAL GAS,	NATURAL			as a combined source (all three units) for each type of	SELECTIVE CATALYTIC			FIRST 500			AFTER 500			
NC-0101	FORSYTH ENERGY PLANT	9/29/200	5 (3) TURBINE,	GAS	1844.3	MMBTU/H	fuel.	REDUCTION (SCR) SELECTIVE CATALYTIC	2.5	ppmvd	HOURS		PPMVD	HOURS	3	PPM @ 15% O2	
NJ-0074	WEST DEPTEOD DEVELOW	5/6/200	COMBINED	NATURAL	1720	MMFT3/YR		REDUCTION (SCR) AND WATER INJECTION		LB/MMRTU	3 HR ROLLING AVERAGE	l .	PPMVD	3 HR ROLLING AVERAGE			
NJ-00 /4	WEST DEPTFORD ENERGY	5/6/200	COMBINED	UAS	17298	PININT 13/1K		INDECTION	0.01	LD/MMB1U	AVERAGE		FINIVID	AVERAGE	1		
			CYCLE COMBUSTION	1			Natural Gas Usage <= 33,691 MMfh^3/yr per 365 consecutive day period, rolling one				3-HR ROLLING						
	PSEG FOSSIL LLC		TURBINE WITH	1			day basis (per two Siemens turbines and two associated duct burners)				AVE BASED ON			AVERAGE OF			
*NJ-0081	SEWAREN GENERATING STATION	3/7/201	DUCT BURNER -	Natural Gas	33691	MMCUBIC FT PER YEAR	The heat input rate of the Siemens turbine will be 2,356 MMBtu/hr(HHV) with a 62.1 duct burner MMBtu/hr(HHV).	Selective Catalytic Reduction System (SCR)	١,	nomed	1-HR BLOCK AVE	19	S lb/hr	THREE ONE HOUR TESTS			
16 0001	DITTIES.	3/7/201	COMBINED	Tutturur Cus	3307	TEST		(JCAC)		рушти	3112	12	, tom	INCONTENTO	,		
			CYCLE COMBUSTION				Natural Gas Usage <= 33,691 MMfh^3/yr per 365 consecutive day period, rolling one										
	PSEG FOSSIL LLC		TURBINE WITH DUCT BURNER -				day basis (per two turbines and two duct burners)				3-HR BLOCK AVERAGE			AVERAGE OF			
	SEWAREN GENERATING		GENERAL				The heat input rate of each General Electric combustion each turbine will be 2,312	Selective Catalytic Reduction			BASED ON 1-HR			THREE ONE			
*NJ-0081	STATION	3/7/201	4 ELECTRIC	Natural gas	33691	MMCUF/year.	MMBtu/hr(HHV) with a 164.4 MMBtu/hr duct burner This is a 427 MW Siemens Combined Cycle Turbine with duct burner	Systems(SCR) and Dry Low NOx	2	ppmvd	BLOCK	18.	l lb/hr	HOUR TESTS	(
			L				Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)	L									
	WEST DEPTFORD ENERGY		Combined Cycle Combustion Turbine				Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)	Selective Catalytic Reduction System (SCR) and use of natural gas a clean			3-HR ROLLING AVE BASED ON			3-HR ROLLING AVE BASED ON			
*NJ-0082	STATION		4 without Duct Burner	Natural Gas	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burner. This is a 427 MW Siemens Combined Cycle Turbine with duct burner	burning fuel	2	ppmvd	1-HR BLOCK	17.3	lb/hr	1-HR BLOCK	(
			1				Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)										
	WEST DEPTFORD ENERGY		Combined Cycle Combustion Turbine				Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)	Selective Catalytic reduction (SCR) and			3-HR ROLLING AVE BASED ON			3-HR ROLLING AVE BASED ON			
*NJ-0082	STATION	7/18/201	4 with Duct Burner	Natural Gas	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners.	use of natural gas a clean burning fuel	23	lb/hr	1-HR BLOCK		PPMVD	1-HR BLOCK	(
NY-0095	CAITHNES BELLPORT ENERGY CENTER	5/10/200	COMBUSTION 6 TURBINE	NATURAL GAS	2221	MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	SCR	ļ ,	ppmvd			_				
*0073	LONGOT CHATEK	3/10/200	oj i okbist	Inde	1 2221	paractin	COMBRED CYCLE WITH DOCT FIXING OF TO 474 MINIDION	per		Hannan	1	· '	1		1 (9	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UN	T PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
								THE TURBINES EMPLOY DRY LOW									
							THE FACILITY CONSISTS OF 3 WESTINGHOUSE MODEL 501G GAS COMBINED	NOX TECHNOLOGY AND NORMALLY OPERATE ON GAS.			1					1	
				1			CYCLE TURBINES (245 MW BASE LOAD), HEAT RECOVERY STEAM	NOX EMISSIONS ARE			1					1	
							GENERATORS, AND STEAM TURBINE GENERATORS (115 MW) WITH SELECTIVE	ADDITIONALLY CONTROLLED BY									
	ATHENS GENERATING		FUEL COMBUSTION	NATURAL			CATYALYTIC REDUCTION (SCR.) FOR NOX EMISSION CONTROL. NOX EMISSIONS FROM THE TURBINES ARE ADDITIONALLY CONTROLLED BY AMMONIUM	SELECTIVE CAT ALYTIC REDUCTION WITH AMMONIUM			3 HOUR BLOCK AVAEAGE/STEA			3 HOUR BLOCK AVAEAGE/STEA	.1	PPMVD @ 15%	3 HOUR BLOCK AVAEAGE/STEA
NY-0098	PLANT	1/19/2007	(GAS)	GAS	310	MMBTU/H	FROM THE TURBINES ARE ADDITIONALLY CONTROLLED BY AMMONIUM HYDROXIDE INJECTION.	HYDROXIDE INJECTION.		nomyd	DY STATE	23.	4 lb/hr	DY STATE	'	PPMVD @ 15%	DY STATE
		1/19/200			3100		1401	DRY LOW NOX COMBUSTION	1 '	1,,,,,,,,		233				1	
			FUEL COMBUSTION	NATURAL				TECHNOLOGY IN COMBINATION WITH SELECTIVE CATALYTIC			3-HOUR BLOCK AVE./ STEADY			3-HOUR BLOCK AVE / STEADY	1	PPMVD AT 15%	3-HOUR BLOCK AVE / STEADY
NY-0100	EMPIRE POWER PLANT	6/23/2005	(NATURAL GAS)	GAS	209	MMBTU/H		REDUCTION (SCR) SYSTEM		pomyd	STATE	14.5	9 lb/hr	STATE		2 O2	STATE
			FUEL					DRY LOW NOX COMBUSTION									
			COMBUSTION (NATURAL GAS)	NATURAL				TECHNOLOGY IN COMBINATION WITH SELECTIVE CATALYTIC			3-HOUR BLOCK AVE./ STEADY			3-HOUR BLOCK AVE/STEADY		PPMVD AT 15%	3-HOUR BLOCK AVE / STEADY
NY-0100	EMPIRE POWER PLANT	6/23/2005	DUCT BURNING	GAS	64	6 MMBTU/H		REDUCTION (SCR) SYSTEM	-	nnmvd	STATE	28	9 lb/hr	STATE		3 O2	STATE
	Limiterowskieski	0/25/2003		0.15		J. IMMIDT COTT	Two Siemens 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H	REDUCTION (BER/BTEM		pomru	J.III.	20.	7 10111	J.M.L.			DIMIL
			2 Combined Cycle Combustion				duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined).	selective catalytic reduction (SCR); dry									
	OREGON CLEAN ENERGY		Turbines-Siemens.				Short term limits are different with and without duct burners.	low NOx combustors; lean fuel						PER ROLLING 1:	2.		PPMVD AT 15%
*OH-0352	CENTER	6/18/2013	with duct burners	Natural Gas	5156	0 MMSCF/rolling 12-M	This process with duct burners. Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300	technology	21	lb/hr		9	2 T/YR	MONTHS		2 PPM	O2
			2 Combined Cycle				Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300										
			Combustion Cycle				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined).	selective catalytic reduction (SCR); dry									
	OREGON CLEAN ENERGY		Turbines-Mitsubishi,	,			Short term limits are different with and without duct burners.	low NOx combustors; lean fuel						PER ROLLING 1:	2.		PPMVD AT 15%
*OH-0352	CENTER	6/18/2013	with duct burners	Natural Gas	4791	7 MMSCF/rolling 12-M	This process with duct burners.	technology	20.8	lb/hr		94.	8 T/YR	MONTHS		2 PPM	O2
			Turbines (4) (model				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners			1		1				1	PPMVD AT 15% O2 ON 3-H
	DUKE ENERGY HANGING		GE 7FA) Duct	NATURAL			on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Dry Low NOx burners and Selective			1			PER ROLLING 1:	2	1	BLOCK
*OH-0356	ROCK ENERGY	12/18/2012	Burners On	GAS	17:	2 MW	burners.	Catalytic Reduction	27.6	lb/hr		120.	9 T/YR	MONTHS		3 PPM	AVERAGE
	LAWTON ENERGY COGEN		COMBUSTION TURBINE AND					SCR W/ DRY LOW NOX BURNERS									
OK-0115	LAWTON ENERGY COGEN FACILITY	12/12/2006	TURBINE AND DUCT BURNER					SCR W/ DRY LOW NOX BURNERS AND DRY LOW NOX COMBUSTION	1 24	nomyd	@15% O2	1 .	0		1 .	0	
	PSO SOUTHWESTERN		GAS-FIRED						1 3	- Ingalivu	(m) 23 /0 OZ						
OK-0117	POWER PLT	2/9/2007	TURBINES					DRY LOW NOX	1 9	ppmvd		1	0		1	0	1
			COMBINED CYCLE							1		1				1	
			COGENERATION	NATURAL							1-H AVG @ 15%					1	
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	>25MW COMBUSTION	GAS	188	MMBTU/H	SIEMENS V84.3A	SCR AND DRY LOW-NOX	1 2	ppmvd	02	15.2	5 lb/hr	1-H AVG	1	0	
			COMBUSTION TURBINE & amp;				GE 7241FA TURBINE AND DUCT BURNER.										
			TURBINE & amp; HEAT RECOVERY				GE /241FA LORBINE AND DUCT BURNER.				1					1	
			STEAM	NATURAL			COMBUSTION TURBINE - 1,778.5 MMBTU/HR			1		1				1	
OR-0041	WANAPA ENERGY CENTER	8/8/2005	GENERATOR	GAS	2384.	I MMBTU/H	DUCT BURNER - 605.6 MMBTU/HR	DRY LOW-NOX BURNERS AND SCR	t. 2	ppmvd	3 HOURS	1	2 PPMVD		1	0	
			COMBINED CYCLE NATURAL								1					1	
			GAS-FIRED								1					1	
			ELECTRIC								1					1	
OR-0048	CARTY PLANT	12/29/2010	GENERATING UNIT	NATURAL GAS	200	6 MMBTU/H		SELECTIVE CATALYTIC REDUCTION (SCR.)		nonmad	3-HOUR ROLLING		0		1 .		
OK-0048	CARLLILAMI	12/29/2010	CINII	G/AG	286	WIND LOW		REDUCTION (SCR) Utilize dry low-NOx burners when	1 '	руничи	MULLERU	 	_		+		
								combusting natural gas;		1		1				1	
			1					Utilize water injection when combusting ULSD:	1	1	1					1	
			Mitsubishi M501-					ULSD; Utilize selective catalytic reduction	1	1	1					1	
			GAC combustion					(SCR) with aqueous ammonia injection at	ıt		1					1	
	TROUTER LEE ENERGY		turbine, combined					all times except during startup and			3-HR ROLLING			3-HR ROLLING		1	
*OR-0050	TROUTDALE ENERGY CENTER, LLC	2/5/201/	cycle configuration with duct burner.	natural es	200	8 MMBtu/hr	or ULSD; Duct burner 499 MMBtu/hr, natural gas	shutdown; Limit the time in startup or shutdown.		nonmad	AVERAGE ON NG		5 PPMVD	AVERAGE ON ULSD	1 .		
JK-0030	CENTER, LLC	3/3/2014	with duct burner.	matural gs	298	,viistunif		uic uine in startup or snutdown.	1 '	руличи		3.	LIMIYD	ULSD	<u> </u>		
			L				Two combine cycle Turbines, each with a combustion turbine and heat recovery steam			1		1				1	
	MOXIE LIBERTY		Combined-cycle Turbines (2) -				generator with duct burner. Each combined-cycle process will be rated at 468 MW or less. The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the	Dry Jour-NOy (DI N) combustor or 3		1		1				1	
PA-0278	LLC/ASYLUM POWER PL T	10/10/2012	Natural gas fired	Natural Gas	327	7 MMBTU/H		selective catalytic reduction (SCR)	1 :	ppmvd		1 .	0		1 .	0	
	MOXIE ENERGY	12.13/2012	Combined Cycle		727	I											
en 4 0206	LLC/PATRIOT GENERATION PLT	101001	Power Blocks 472	Notare LC:			Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a	ecn.	1 .		1		2 T/YR	EACH UNIT	1		
*PA-0286	GENERATION PL1	1/31/2013	MW - (2)	Natural Gas	+'		combustion turbine and heat recovery steam generator with duct burner.	DUR.	 	ppinva	+	1113	2 1/YK	EACH UNIT	+'	U	
			Combined Cycle								1					1	
	SUNBURY GENERATION		Combustion Turbine	:			Three powerblocks consisting of three (3) natural gas fired F class combustion turbines coupled				CORRECTED TO			DUCT BURNERS	3	1	DUCT BURNERS
*PA-0288	SUNBURY GENERATION LP/SUNBURY SES	4/1/2013	AND DUCT BURNER (3)	Natural Gas	252900	MMBTU/H	with three (3) heat recovery steam generators (HSRGs) equipped with natural gas fined duct burners	SCR	-	nomyd	CORRECTED TO 15% OXYGEN	17.	4 lb/hr	NOT OPERATING	10	4 I.B/H	OPERATING
0200		4/1/2013	(J)	, sucural Ods	2,3800		with natural gas fired duct burners. The Permittee shall select and install any of the turbine options listed below (or newer versions		1 '	,,,,,,,,,	- SA GALIGIAN	17.		OI LIGHTING	18.		
			1				of these turbines if the	I	1	1	1					1	
							Department determines that such newer versions achieve equivalent or better emissions rates and exhaust parameters)			1		1				1	
			1				1. General Electric 7FA (GE 7FA)	I	1	1	1					1	
							2. Siemens SGT6-5000F (Siemens F)				1					1	
	HOLOBY BL		COMBINED				3. Mitsubishi M501G (Mitsubishi G)				WITH OR			INCLUDING		1	
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	CYCLE UNITS #1 and #2	Natural Gas	,	4 MMCF/HR	Siemens SGT6-8000H (Siemens H) The emissions listed are for the Siemens SGT6-8000H unit.	SCR	.	nomed	WITHOUT DUCT BURNER	17.2	5 T/YR	START UP AND SHUR DOWN	1 .	n	
1.75-0271		4/23/2013	uma #4	, saturar GdS	1	THE PART OF THE PA	The emission faces are for the stemens SOTO-000011 unit.	J. C.	1 '	ppalivu	12-MONTH	17.2	LIK	SHOK DOWN	<u> </u>		
	BERKS HOLLOW ENERGY		Turbine, Combined								ROLLING					1	
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Cycle, #1 and #2	Natural Gas	304	6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst	SCR	131.6	T/Yr	TOTAL	-	0	+	+	D	BASED ON A 12-
			COMBINED							1		1				1	MONTH
	FUTURE POWER PA/GOOD		CYCLE UNIT								1			WITH DUCT		1	ROLLING
*PA-0298	SPRINGS NGCC FACILITY	3/4/2014	(Siemens 5000)	Natural Gas	226	7 MMBtu/hr		SCR	1 2	ppmvd	@ 15% OXYGEN	19.	6 lb/hr	BURNER	79.	9 TPY	TOTAL
							GREEN POWER ONE WILL CONSIST OF TWO NOMINALLY RATED 35 MW GAS				1					1	
							FIRED TURBINES AND TWO HEAT RECOVERY STEAM GENERATORS, EQUIPPED				1					1	
			1				WITH 312 MMBTU/HR DUCT BURNERS. THE COMBUSTION TURBINES WILL		1	1	1					1	
							ONLY BURN PIPELINE QUALITY SWEET NATURAL GAS. THE DUCT BURNERS WILL BURN NATURAL GAS, COMPLEX GAS OR MIXTURES OF NATURAL GAS	BP AMOCO PROPOSES TO USE SCR TO CONTROL NOX EMISSIONS	1		1					1	
							AND COMPLEX GAS. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE	FROM BOTH TURBINES AND DUCT	1		1					1	
							CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX	BURNERS AFTER CONSIDERING			1					1	
			COGENERATION TRAIN 2 AND 3				WILL CONSUME APPROXIMATELY HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE	ALTERNATIVE NOX CONTROL METHODS. THE TURBINES AND	1	1	1					1	
			(TURBINE AND 3				PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GRID.	METHODS. THE TURBINES AND DUCT BURNERS WILL ALSO USE			1					1	
	INEOS CHOCOLATE		DUCT BURNER	NATURAL				LOW NOX COMBUSTORS. BP			1					1	
TX-0497	BAYOU FACILITY	8/29/2006	EMISSIONS)	GAS	3:	5 MW	THE EMISSIONS ARE PER TRAIN.	AMOCO PROPOSES	11.43	lb/hr	3-HR AVG.	90.7	7 T/YR		1	0	

							Invenergy, LLC - Allegneny County Energ										
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	NACOGDOCHES POWER STERNE GENERATING		WESTINGHOUSE/ SIEMENS MODEL SW501F GAS TURBINE W/416.5 MMBTU DUCT					SITEAG FOWER LLC IS PROPOSING THE USE OF DRY LOW NOX (DLN) COMBUSTORS FOR THE TURBINES AND LOW NOX BURNERS IN THE DUCT BURNERS ALONG WITH SELECTIVE CATALYST REDUCTION (SCR) SYSTEM FOR THE CONTROL OF NOX EMISSIONS FROM THE									
TX-0502 TX-0516	FACILITY CITY PUBLIC SERVICE JK SPRUCE ELECTRICE GENERATING UNIT 2	6/5/2006	SPRUCE POWER GENERATOR UNIT NO 2	GAS	190	MW		COMB	45.4				14 T/YR 12 T/YR)	
TX-0546	PATTILLO BRANCH POWER PLANT		ELECTRICITY GENERATION	NATURAL GAS	350	MW	EACH TURBINE/HRSG WILL BE DESIGNED TO OUTPUT 350 MW. TURBINES BEING CONSIDERED FOR THE PROJECT ARE GE 7FA, GE 7FB, AND SIEMENS SGT6 5000F	SELECTIVE CATALYTIC REDUCTION	1600	ppmyd	@ 15% O2 24-HF ROLLING AVG	1/3	0				
TX-0547	NATURAL GAS-FIRED POWER GENERATION FACILITY	622/2009	ELECTRICITY OGENERATION	NATURAL	250		SOOIS LUMAR POWER TAR TESES PROPOSES TO CONSTRUCT A NATURAL CAS-FIRED COMBINED-CYCLE POWER BLOCK TO BE BUILT AT THE EXISTING SITE IN LAMAR COUNTY, TEXAS. THE NEW POWER BLOCK WILL BE CAPABLE OF PRODUCING EITHER 620 OR 910 MEGAWATTS OF ELECTRICITY, DEPENDING UPON WHICH COMBUSTION TURBINE MODEL OPTION IS CHOSEN. THE PROPOSED PROJECT WOULD INCLUDE TWO COMBUSTION TURBINES (EITHER PROPOSED PROJECT WOULD INCLUDE TWO COMBUSTION TURBINES (EITHER RECOVERY STEAM GENERATORS WITH DUCT BURNERS AND ONE STEAM TURBINE. THE GIFTAS WOULD BE CAPABLE OF PRODUCING 620 MW OF ELECTRICITY IN COMBINED CYCLE MODE, WHILE THE M501GS WOULD PRODUCED (EVERTAM COMBINED CYCLE MODE, WHILE THE M501GS WOULD PRODUCED (EVERTAM COMBINED CYCLE MODE.)	SELECTIVE CATALYTIC REDUCTION		pand	@ 15% O2, 24-HF ROLLING AVG						
120347	MADISON BELL ENERGY	0/22/2003	ELECTRICITY	NATURAL	230	atri	FOUR GE PG7121(EA) COMBINE CYCLE TURBINES FIRING NATURAL GAS WILL DIRECTLY GENERATE 75 MW; EACH HAS A 165 MMBTU/HR DUCT BURNER AND A HEAT BECOVERY STEAM GENERATOR. TWO HR 9GÂS WILL TIEN ONE 125			ppinvu							
TX-0548	MADISON BELL ENERGY CENTER	8/18/2009	GENERATION	GAS	275	MW	The plant will be designed to generate 1,350 nominal megawatts of power. There are two configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode	SELECTIVE CATALYTIC REDUCTION	2	ppmvd	@ 15% O2, 24-HF ROLLING AVG	1	0		()	
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural gas	1350	MW	(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B also includes one or two auxiliary boilers. (2) GETFA at 195 MW each, (1) steam turbine at 200 MW.	DLN burners and SCR	2	ppmvd	1-HOUR AVERAGE ROLLING 24-HR		0)	
TX-0600	THOMAS C. FERGUSON POWER PLANT	9/1/2011	Natural gas-fired turbines	natural gas	390	MW	Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which provides steam for the steam turbine.	Dry low NOx burners and Selective Catalytic Reduction	2	ppmvd	AT 15% OXYGEN @15% O2 ON A 3	-	0)	
TX-0618	CHANNEL ENERGY CENTER LLC	10/15/2012	Combined Cycle Turbine	natural gas	180	MW	The turbine is a Siemens 501F rated at a nominal 180 MW and the duet burner will have a maximum design heat input of 475 MMBtulhr. natural gas-fired combined cycle turbine generator with a heat recovery steam generator	Selective catalytic reduction	2	ppmvd	HR ROLLING AVG		0)	
TX-0619	DEER PARK ENERGY CENTER	9/26/2012	Combined Cycle Turbine	natural gas	180	MW	equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts and the DB will have a maximum design rate capability of 725 million British thermal units per hour The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a	Selective Catalytic Reduction	2	ppmvd	@15% O2, 3-HR ROLLING AVG		0				
TX-0620	ES JOSLIN POWER PLANT	9/12/2012	Combined cycle gas turbine	natural gas	195	MW	maximum base-load electric power output of approximately 195 megawatts (MW). The steam turbine is rated at approximately 235 MW. This project also includes the installation of two emergency generators, one fire water pump, and auxiliary equipment. No duct burners.	Selective catalytic reduction	2	ppmvd	@15% O2, 24-HR ROLLING AVG		0)	
*TX-0641	PINECREST ENERGY CENTER	11/12/2013	combined cycle	natural gas	700	MW	The generating equipment consists of two natural gas-fixed combustion turbines (CTA), each chausing to a first hot net recovery steam generated (IRISO) to produce steam to thive a shared steam turbine generater. The steam turbine is meted at 271 MW of electric output. Three models of combustion turbines are being considered for this site the General Electric TeA DS, the Siemens SCT6-5000F(4) and the Siemens SCT6-5000F(5). The final selection of the combustion turbine will not be made until after the permit is issued. Plant output will range between 637 and 735 MW, depending on the model turbine selected. Duxt Burners are rated at 750 MMBruthe vol.	selective catalytic reduction	2	ppmvd	24-HR ROLLING AVG, 15% OXYGEN		0		()	
*TX-0660	FGE TEXAS POWER I AND FGE TEXAS POWER II	3/24/2014	Alstom Turbine	Natural Gas	230.7	MW	Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity 409 MMBtu/hr	Selective catalytic reduction	2	ppmvd	CORRECTED TO 15% O2, ROLLING 24 HR AVE		0)	
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY	7/16/2014	Combustion Turbine	natural gas	87	MW	The exhaust heat from the turbine will be used to heat a heating medium which is used to regenerate rich amine from the acid gas removal system.	Selective Catalytic Reduction	2	ppmvd	15@ O2, 3 HOUR ROLLING AVERAGE		0)	
*TX-0689	CEDAR BAYOU ELECTRIC GENERATION STATION	8/29/2014		Natural Gas	225	MW		DLN, SCR	2	ppmvd	24HR ROLLING AVG. @15% O2, 3-HR		0)	
*TX-0698	BAYPORT COMPLEX	9/5/2013	(4) cogeneration turbines	natural gas	90	MW	(4) GE 7EA turbines providing power and process steam The specific equipment includes two combustion turbines (CTs) connected to electric generators, producing between 183 and 22.2 MW of electricity, depending on ambient temperature and the selected CT. The two IRESGs use duet burners rated at 750 MMBhuhr each to supplement the heat energy from the CTs. The steam from the two IRESGs is combined and routed to a single steam turbine driving a third electric generator with an electricity output capacity of 271 MW. Depending on the selected CT, total plant output at 59ŰF is between 637 MW and 735 MW.	DLN and Closed Loop Emissions Controls (CLEC)	5	ppmvd	ROLLING AVERAGE		0				
*TX-0708	LA PALOMA ENERGY CENTER	2/7/2013	(2) combined cycle turbines Natural gas-fired	natural gas	650	MW	The applicant is considering three models of CT; one model will be selected and the permit revised to reflect the selection before construction begins. The three CT models are: (1) General Electric 7FA.04; (2) Siemens SGT6-5000F(4); or (3) Siemens SGT6-5000F(5).	Selective Catalytic Reduction	2	ppmvd	@15% O2, 24-HR ROLLING AVERAGE		0)	
*TX-0709	SAND HILL ENERGY CENTER	9/13/2013	combined cycle turbines	Natural Gas	173.9	MW	General Electric 7FA.04 at 197 MW nominal ouput. The duct burners will be capable of a	SCR	2	ppmvd	24HR ROLLING AVG.		0				
*TX-0710	VICTORIA POWER STATION	12/1/2014	combined cycle	natural gas	197	MW	maximum natural gas firing rate of up to 483 MMBtuhr (HHV). The duct burners may be fired additional hours; however, total annual firing will not exceed the equivalent of 4,375 hours at maximum capacity per duct burner. The available capacity of the existing steam turbine will be increased from 125 MW in its existing 1x1x1 configuration to approximately	Selective Catalytic Reduction		ranmed	@15% O2, 24-HR ROLLING AVERAGE	,	.5 PPMVD	@15% O2, 3-HR ROLLING AVERAGE			
	TRINIDAD GENERATING FACILITY	11/20/2014	combined cycle	natural gas		MW	188 MW in the 2c2xl configuration. The facility will consist of a Mistabishi Heavy Industries (MHI) J model gas fired combustion turbine nominally rated at 497 megawatts (MW) equipped with a HRSG and DB with a maximum design capacity of 402 million British thermal units per hour (MMBtuhr). The gooss nominal output of the CTG with HRSG and DB is 530 MW.	Selective Catalytic Reduction	2	ppmvd	@15% O2, 24-HR ROLLING AVERAGE	3.	0	2.VEKAGE			

RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	TENASKA BROWNSVILLE		(2) combined cycle				Each CTG is site-rated at 274 MW gross electric output at 62ŰF ambient temperature. At this condition, two HRSGs with full duct barner firing produce enough steam to generate an additional 336 MW, for a total of 884 MW gross, or with about 5% losses, about 840 MW net electric output. Under summertime conditions, the not output is approximately 800 MW with				@15% O2, 24-HR ROLLING						
*TX-0713	GENERATING STATION	4/29/2014	turbines	natural gas	274	MW	the 2x1 CCGT configuration or about 400 MW with the 1x1 CCGT configuration. The gas turbines will be one of three options:	Selective Catalytic Reduction	2	ppmvd	AVERAGE	((
							(1) Two Siemens Model F5 (SF5) CTGs each rated at nominal capability of 225 megawatts (MW). Each CTG will have a duct fired HRSG with a maximum heat input of 688 million British thermal units per hour (MMBtu/hr).										
							(2) Two General Electric Model 7FA (GE7FA) CTGs each rated at nominal capability of 215 MW. Each CTG will have a duet fired HRSG with a maximum heat input of 523 MMBtu/hr.										
*TX-0714	S R BERTRON ELECTRIC GENERATING STATION	12/19/2014	(2) combined cycle turbines Combined-cycle gas	natural gas	240	MW	(3) Two Mitsubishi Heavy Industry G Frame (MHIS01G) CTGs each rated at a nominal electric output of 263 MW. Each CTG will have a duct fired HRSG with a maximum heat input of 686 MMBtu/hr.	Selective Catalytic Reduction	2	ppmvd	@15% O2, 24-HR ROLLING AVERAGE						
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/2015	turbine electric generating facility	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	SCR and oxidation catalyst	2	ppmvd	24-HR AVERAGE						
TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	6/18/2015	Combined Cycle Turbines (>25 MW) â& natural	natural gas		MW	Two power configuration options authorized Siemens âc 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner GE âc* 210 MW + 349.2 MMBtu/hr duct burner	Selective Catalytic Reduction			ROLLING 24-HR AVERAGE						
12-0731	ELECTRIC STATION	0/18/2013	Combined Cycle	naturar gas	210	N.W	Two power configuration options authorized	Scientive Catalytic Reduction	†	ppinva	AVERAGE	,			,		
*TX-0767	LON C. HILL POWER STATION	10/2/2015	Turbines (>25 MW)	natural gas	195	MW	Siemens â€" 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner GE â€" 195 MW + 670 MMBtu/hr duct burner	Selective Catalytic Reduction	2	ppmvd	ROLLING 24-HR AVERAGE	(
			COMBINED CYCLE TURBINE					Two-stage, lean pre-mix dry low-NOx combustor and a selective catalytic									
VA-0315	WARREN COUNTY POWER PLANT - DOMINION	12/17/2010	& DUCT BURNER, 3	Natural Gas	2996	MMBTU/H	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	reduction (SCR) control system using ammonia injection.	2	ppmvd	ONE HOUR AVERAGE	25.3	lb/hr	ONE HOUR AVERAGE	(
l	BRUNSWICK COUNTY		COMBUSTION TURBINE				Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners	Selective catalytic reduction and ultra									
*VA-0321	POWER STATION GREEN ENERGY	3/12/2013	GENERATORS, (3) Large combustion turbines	Natural Gas	3442	MMBTU/H	(natural gas-fired). Throughput and Units above are for the GEF7.05.	low NOx burners. Selective Catalytic Reduction (SCR).	1	ppmvd	1 H AVG		1		(
*VA-0322	PARTNERS/ STONEWALL, LLC	4202013	(>25MW) CCT1 and CCT2	Natural Gas	2.22	MMBTU/hr	Siemens SGTF-5000F5: Throughput: 2.260 MMBTU/hr	with ammonia injection and dry low NOx combusion.									
- VA-0322	iii	4/30/2013	GE 7FA COMBUSTION TURBINE & amp;		2.23	MWB1C/m											
WA-0328	BP CHERRY POINT COGENERATION PROJECT	1/11/2005	HEAT RECOVERY STEAM GENERATOR	NATURAL GAS	174	MW	THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL AVERAGE CAPACITY RATING OF 1614 MMBTU/HB. EACH HRSG DUCT BURNER WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HB. This entry is for both of two identical units at the facility.	LEAN PRE-MIX DRY LOW-NOX BURNERS ON CT. LOW-NOX DUCT BURNERS. SCR.	2.5	ppmvd	3-HR @ 15%O2	((*SEE NOTES
*WV-0025	MOUNDSVILLE COMBINED CYCLE POWER PLANT	11/21/2014	Combined Cycle Turbine/Duct Burner	Natural Gas	2419.61	mmBtu/Hr	Nominal 197 mW General Electric Frame 7FA.04 Turbine w/ Duct Burner - throughput denotes aggregate heat input of turbine and duct burner (HHV).	SCR & Dry Low-NOx Burners	15.2	lb/hr		(30-DAY	2	PPM	@ 15% O2
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	8/28/2012	Combined Cycle Turbine (EP01)	Natural Gas	40	MW		SCR	3	ppmvd	1-HOUR	4.6	lb/hr	ROLLING AVERAGE	25.5	T/YR	
	CHEYENNE PRAIRIE		Combined Cycle											30-DAY ROLLING			
*WY-0070	GENERATING STATION	8/28/2012	Turbine (EP02)	Natural Gas	40	MW		SCR	3	ppmvd	1-HOUR 3-hour block	4.6	lb/hr	AVERAGE		T/YR	
	Astoria Energy LLC		Combustion Turbine	Natural Gas	1000	MW		SCR/Low NOx Burners	2	ppmvd	average; Duct Burners On	15	lb/hr	1-hr average; Due Burners On	et		
	Astoria Energy LLC		Combustion Turbine	Natural Gas	1000	MW		SCR/Low NOx Burners	0.2	lb/MMBtu	1-hour average						
	Catastin Power I I C		Combustion Turbine	Natural Gas	170	MW		Pipeline quality low sulfur NG; DLN combustion design; Low NOx burners; SCR	,,	named	1 hr average; Duct						
	Catoctin Power LLC Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas		MW		SCR/Low NOx Burners	18.1	lb/hr	Burners On 1-hr average; Duct Burners On	0.007/	lb/MMBtu	1-hr average; Due Burners On	et .		
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas		MW		SCR/Low NOx Burners	10.1	nomud	1-hr average; Duct Burners On		lb/MW-hr	1-hr average; Due Burners On	et		
	Kalama Energy Center		Combustion Turbine			MMBtu/hr		SCR	2	ppmvd	1-hr average	18.5		1-hr average			
	Kalama Energy Center		Combustion Turbine			MMBtu/hr		SCR	15	ppmvd	30-day average		T/YR	12-mo rolling			
	Lawrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW		SCR with Dry Low Nox (DLN) Burners	3	ppmvd	1-hr average						
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	MMBtu/hr			2.5	ppmvd							
	PacifiCorp Energy PacifiCorp Energy		Block 1 CT Block 2 CT	Natural Gas Natural Gas	629	MW			2	ppmvd	3-hour 3-hour	14.9	lb/hr lb/hr				
	Pioneer Valley		Combustion Turbine	Natural Gas	387	MW			2	ppmvd	1-hr average						
	Russell City Energy Company, LLC		Combustion Turbine	Natural Gas	2038.6	MMBtu/hr			2	ppmvd	1-hr average			1			
	Sevier Power Company Power Plant CPV Valley Energy Center		Combustion Turbine	Natural Gas	580	MW			2	ppmvd	3-hr average			1			1
<u> </u>	Wawayanda, NY CPV Valley Energy Center			Natural Gas	630	MW			2	ppmvd	3-hr average		-	+		-	1
<u> </u>	Wawayanda, NY Woodbridge Energy Center			Natural Gas	630	MW			2	ppmvd	3-hr average		-	+		-	-
	(CPV Shore, LLC) Woodbridge Energy Center			Natural Gas		MMBtu/hr			2	ppmvd			-	+		-	1
	(CPV Shore, LLC)			Natural Gas	2307	MMBtu/hr		-	2	ppmvd			-	+		-	1
	PA STATE UNIV/UNIV		COMBINED HEAT AND POWER DUAL-FIRED COMBUSTION			MO (Decile											
	PARK CAMPUS		TURBINE	Natural Gas		MMBtu/hr			13	ppnivd		17.4		1			1
	Hummel Station LLC	l	Combustion Turbine	Natural Gas	2254	MMBtu/hr			18.4	Ib/hr	L	17.4	lb/hr			1	

DDI GID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	TUROU CURVE UNIT	ANALYSIS NOW,	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT		EMISSION LIMIT 2	UNIT		STANDARAD EMISSION LIMIT		AVG TIME CONDITION
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT I	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
1	0:1:11				1000												
_	Cricket Valley Energy Center		Combustion Turbine	Naturai Gas	1000	MW				2 ppmvd	1-hr average						
	Effingham County Power		Combustion Turbine	Natural Gas	180	MW				2 ppmvd	3-hr average						
	Gibson County Generation,																
	LLC		Combustion Turbine	Natural Gas	417	7 MW				2 ppmvd	24-hr average	0.0073	lb/MMBtu				
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	3141	7 MMBtu/hr				2 ppmvd		26.5	lb/hr				
	UGI Development Co/ Hunlock																
	Creek		Combustion Turbine			MMBtu/hr				9 ppmvd							
	Hawkeye Generating, LLC			Natural Gas	61:	MW			0.008	8 lb/MMBtu	3-hr rolling	185.64	T/YR				
	Huntington Beach Energy			Natural Gas		MW (net)					1-hr rolling						
_	Project			Natural Gas	935	MW (net)				2 ppmvd	1-hr rolling						
1	Hess Newark Energy Center		Combustion Turbine	Natural Gas	2264	MMBtu/hr				2 ppmyd		0.0073	lb/MMBtu				
	TICSTICHUR LINERY CORCI		Companion ruibine	Tuturun Gus	2200	, minipular				2 ppinitu	3-hour average.	0.007.	iconini di di				
	York Energy Center Block 1				1574	MMBtu/hr				2 ppmvd	rolling by 1-hour						
											3-hour block						
											average; average or	f					
	York Energy Center Block 2	6/15/2015	5		2512.5	MMBtu/hr	firing NG with duct burner			2 ppmyd	3 test runs						
	Shell Chemical																
1	Appalachia/Petrochemicals																
	Complex	6/18/2015	5		664	4 MMBtu/hr	each turbine/duct burner			2 ppmvd	1-hour average	lb/hr					
	Calpine/Bethlehem Energy																
	Center				122	MW			2.	5 ppmvd							
1	Liberty Electric Power, LLC			1	1954	MMBtu/hr	With DB			5 ppmvd							1

		PERMIT ISSUANCE		PRIMARY			I	CONTROL METHOD	IEMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			Combined-cycle				3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine Total unit generating capacity is approximately 1,600 MW. Primarily fueled with				GAS. 24-HR			ULSD, 24-HR			
	OKEECHOBEE CLEAN		electric			MMBtu/hr per	natural gas. Permitted to burn the base-load equivalent of 500 hr/yr per turbine on	Selective catalytic reduction; dry low-	1-	PPMVD@15%	BLOCK,		PPMVD@15%	BLOCK,			
FL-0356	ENERGY CENTER	3/9/2016	generating unit	Natural gas	3096	turbine	ULSD.	NOx; and wet injection	2	02	EXCLUDING SSN	1 8	02	EXCLUDING SSM	0		
			EUCCT (Combined				A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine.				24-H ROLL.AVG. EXCEPT	'		24-H ROLL.AVG., EXCEPT			
			cycle CTG with				The turbine operates in combined-cycle with an unfired heat recovery steam	SCR with DLNB (Selective catalytic			STARTUP/SHUTI	D		STARTUP/SHUTE	,		
MI-0427	FILER CITY STATION	11/17/2017	unfired HRSG)	Natural gas	1934.7	MMBTU/H	generator (HRSG).	reduction with dry low NOx burners).). 3	PPM	OWN	21.4	LB/H	OWN	0		
							This emission unit is being entered as a separate process to account for the emission limits associated with startup/shutdown events, which could not be included within										
							the previous EUCCT original process name.										
			EUCCT (Startup/Shutdow				A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The turbine operates in combined-cycle with an unfired heat recovery steam	SCR with DLNB (Selective catalytic									
MI-0427	FILER CITY STATION	11/17/2017	(Startup/Snutdow	Natural gas	1934.7	MMRTU/H	generator (HRSG).	reduction with dry low NOx burners).	32	POUNDS	PER EVENT	0					
1111 0-127	TILLIN CHI I SIMILON	11/1//201/	Combined Cycle	ivatarar gas	1334.7	WWW.DTO/II	Seriotor (mod).	reduction war ary low nox burners).	. 32	1001103	T EN EVENT	Ť			1		
			&				2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or										
TX-0788	NECHES STATION	3/24/2016	Cogeneration	Natural gas	231	MW	210 MW (GE) Simple cycle operations limited to 2,500 hr/yr.	Selective Catalytic Reduction	2	PPM		0			0		
	DECORDOVA STEAM		Combined Cycle &:				2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or										
TX-0789	ELECTRIC STATION	3/8/2016	Cogeneration	Natural gas	231	MW	210 MW (GE). Simple cycle operations limited to 2,500 hr/yr.	Selective Catalytic Reduction	2	PPM		0			0		
			Refrigeration														
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Compression Turbines		40	M TONNES/YR	55 55 55 55 55 55 55 55 55 55 55 55 55	Dry low NOx burners and good		PPM	ROLLING 24-HR AVERAGE						
17-0/30	LEMINAL	2/1//2010	Simple Cycle	Natural gas	10	IVI I UNINES/TR	Four GE Frame 7E gas turbines for refrigeration and compression at the site	combustion practices	9	CEIVI	AVERAGE	ľ		+	1		
			Electrical														
	PORT ARTHUR LNG EXPORT	1	Generation Gas				Nine GE PGT25+G4 gas turbines for electrical generation at the site at 34				ROLLING 24-HR						
TX-0790	TERMINAL	2/17/2016	Turbines 15.210	Natural gas	34	MW	MW/turbine	SELECTIVE CATALYTIC REDUCTION	5	PPM	AVERAGE	0	+	+	10		
								Turbines EU IDs 5 through 8 shall be									
								equipped with Selective Catalytic									
								Reduction and Dry Low NOx (SCR and									
								DLN) combustors. SCR is a post- combustion gas treatment technique for									
								reduction of nitric oxide (NO) and									
								nitrogen dioxide (NO2) in the turbine exhaust stream to molecular nitrogen,									
								water, and oxygen. This process is									
								accomplished by using ammonia (NH3)									
								as a reducing agent, and is injected into the flue gas upstream of the catalyst bed.									
								By lowering the activation energy of the									
								NOx decomposition removal efficiency of 80 to 90 percent are achievable. DLN	of								
								combustors utilize multistage premix									
								combustors where the air and fuel is mixed at a lean fuel to air ratio. The									
								excess air in the lean mixture acts as a									
								heat sink, which lowers peak combustion									
								temperatures and also ensures a more homogeneous mixture, both resulting in									
	INTERNATIONAL STATION						EU IDs 5-8 Combined Cycle Natural Gas-fired Combustion Turbines rated at 59,900 hp (44.7	greatly reduced NOx formation rates.									
AK-0073	POWER PLANT BLYTHE ENERGY PROJECT	12/20/2010	Fuel Combustion 2 COMBUSTION	Natural Gas NATURAL	59900	HP	MW)	DLN can reduce emissions by about 60% SELECTIVE CATALYTIC	5 5	PPMVD	4-HOUR AT 15% O2, 3-HI	0			0		
CA-1144	п	4/25/2007	TURBINES	GAS	170	MW	EACH TURBINE WILL PRODUCE 170 MW	REDUCTION	2	PPMVD	AVG	14.8	lb/hr		0		
CA-1177	OTAY MESA ENERGY CENTER LLC	7/22/2009	Gas turbine combined cycle	Natural gas	171 7	MW		SCR	2	PPMVD	1 HOUR	0			0		
CIT-TITT	CLIVILICADO	11222007		Trucului gus	.,.,		Source test results:	Sex	-		IIIOOK	ľ			ľ		
CA-1178	APPLIED ENERGY LLC	3/20/2009	Gas turbine combined cycle	Natural gas	0		1.45 ppm NOx @ 15% O2 or 2.19 lb/hr <0.22 ppm VOC @15%O2 or <0.12 lb/hr	SCR	2	PPMVD	1 HOUR	0			0		
-75-11/0			COMBUSTION	. rusunui gas	ľ	1	ppm - 20 (B) 12 (2004 of Total form		f		· · · · · ·	ľ	_		ľ		
			TURBINE #2 (NORMAL								@15% O2, 1-HR						
	VICTORVILLE 2 HYBRID		OPERATION, NO	NATURAL							AVG (NO DUCT		1	1-HR AVG (NO			
CA-1191	POWER PROJECT	3/11/2010	DUCT BURNING) COMBUSTION	GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	SCR	2	PPMVD	BURNING)	11.55	lb/hr	DUCT BURNING	0		
			TURBINE #1										1				
	VICTORVII I E A VICTORVI		(NORMAL								1-HR AVG,		1	IIII 43/2 2:-			
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	OPERATION, NO DUCT BURNING)	Natural Gas	154	MW	154 MW Combined Cycle Combustion Turbine Generator	SCR	2	PPMVD	@15% O2 (NO DUCT BURNING	i) 11.55	lb/hr	1-HR AVG, (NO DUCT BURNING	0		
			COMBUSTION TURBINE #1														
			TURBINE #1 (NORMAL										1				
			OPERATION, NO	NATURAL							@15% O2, 1-HR		1				
CA-1192	AVENAL ENERGY PROJECT	16/21/2011	DUCT BURNING) COMBUSTION	GAS	180	MW		SCR, DRY LOW NOX COMBUSTORS	3 2	PPMVD	AVG	13.55	lb/hr	1-HR AVG	0		
			TURBINE #2										1				
			(NORMAL OPERATION, NO	NATIDAL							@15% O2, 1-HR		1				
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	DUCT BURNING)		180	MW		SCR, DRY LOW NOX COMBUSTORS	2	PPMVD	@15% O2, 1-HR AVG	13.55	lb/hr	1-HR AVG	0		
			COMBUSTION				TWO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATEL AT 154 MEGAWATT (MW, GROSS) EACH, TWO HEAT RECOVERY STEAM										
			TURBINES				GENERATORS (HRSG), ONE STEAM TURBINE GENERATOR (STG) RATED AT 267	DRY LOW NOX (DLN)									
I	PALMDALE HYBRID	l	(NORMAL	NATURAL	L	l	MW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH	COMBUSTORS, SELECTIVE			@15% O2, 1-HR	1.			L		
CA-1212	POWER PROJECT	10/18/2011	OPERATION) NATURAL-GAS	GAS	154	MW	ASSOCIATED HEAT-TRANSFER EQUIPMENT	CATALYTIC REDUCTION (SCR)	2	PPMVD	AVG	10	+	+	ľ		
			FIRED,														
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	5/2/2006	COMBINED- CYCLE TURBINE	NATURAL GAS	300	MW	ONE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING FACILITY.	LOW NOX BURNERS AND SCR	3	PPMVD	HOURLY MAX	0.013	LB/MMBTU	SEE NOTE	3	PPM @ 15% O2	
CO-0036		5/2/2000	Four combined	una	550	101.07				I I WI V D	INOURL I MAX	3.013	LD/MMD1U			W (44) 1370 OZ	
*CO-0073	PUEBLO AIRPORT	7727010	cycle combution		272		Three GE, LMS6000 PF, natural gas-fired, combined cycle CTG, rated at 373 MMBtu per	Dry Low NOx (DLN) Combustor and	,	PPMVD	I IID AND	L.,	n. a	30-DAY			
	GENERATING STATION	7/22/2010	turbines	maturai gas	13/3	mmotu/nr	hour each, based on HHV and one (1) HRSG each with no Duct Burners	Selective Catalytic Reduction (SCR)	13	PPMVD	1-HR AVE	[4.1	ID/Dr	ROLLING AVE	Įν		

		IPERMIT ISSUANCE	_	IPRIMARY			Invenergy, LLC - Allegneny County Energ	CONTROL METHOD	TEMISSION		TAVC TIME	TEMISSION		IAVC TIME	ISTANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT		LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr							@ 15% OXYGEN			
	NRG ENERGY CENTER						Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified							BASED ON A 1			
DE-0023	DOVER	10/31/2012	UNIT 2- KD1	Natural Gas	655	MMBTU/H	CEMS and COMS.	Selective Catalytic Reduction	5.76	lb/hr	1 HR AVERAGE HOURLY AS	2.5	PPMVD	HOUR AVERAGE 3 HOUR	0	+	
E-0024	GARRISON ENERGY CENTER	1/30/2013	** ** *	Natural Gas	2250	million BTUs		Low NOx Combustors, Selective		PPMVD	BASELOAD ON NAT. GAS		PPMVD	AVERAGE ON ULSD OIL			
DE-0024			COMBINED	NATURAL	2260	million BTUs		Catalytic Reduction	2			6		ULSD OIL	0	+	
L-0265	HINES POWER BLOCK 4	6/8/2005	CYCLE TURBINE	GAS	530	MW	2117 MMBTU/HR FUEL OIL.	SCR	2.5	PPMVD	NATURAL GAS	10	PPMVD	OIL	2.5	PPM @ 15% O2	
							EACH COMBINED CYCLE UNIT SYSTEM (TWO &Isquo &Isquo 3-ON-I&Isquo &Isquo) WILL CONSIST OF: THREE NOMINAL 250 MEGAWATT MODEL 501G GAS TURBINE-ELECTRICAL GENERATOR SETS WITH EVAPORATIVE INLET COOLING										
			COMBINED CYCLE COMBUSTION				TORBINS-ELECTRICAL GENERALOW SETS WITH EVALVAGRATIVE RICH COOLING SYSTEMS, THERE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM GENERATORS (HRSGÁ,S) WITH SCR REACTORS, ONE NOMINAL 428 MMBTU/HOUR (LHV) GAS-FIRED DUCT BURNER LOCATED WITHIN EACH OF THE THREE HRSGÁ,S; THREE 149 FEET EXHAUST STACKS; ONE 26 CELL										
L-0286	FPL WEST COUNTY ENERGY CENTER	1/10/2007	GAS TURBINES - 6 UNITS	NATURAL	2222	MMBTU/H	MECHANICAL DRAFT COOLING TOWER: AND A COMMON NOMINAL 500 MW	DRY LOW NOX AND SCR WATER INJECTION	2	PPMVD	24-HR (GAS)		PPMVD	24-HR (OIL)			
FL-0286	ENERGY CENTER	1/10/2007	6 UNITS	GAS	2333	MMB10/H	STEAM-ELECTRICAL GENERATOR. FUELHEAT INPUT RATE (LHV): OIL2,117 MMBTU/H COMBNED CYCLE UNT 3 WILL CONSIST OF: THREE NOMINAL 250 MW	WATER INJECTION	2	FFMVD	24-FR (GAS)		FFMVD	24-rik (OiL)	0		
	FPL WEST COUNTY		THREE NOMINAL 250 MW CTG (EACH) WITH SUPPLEMENTAR	NATURAL			COMBUSTION TURBINE-ELECTRICAL GENERATORS (CTG) WITH EVAPORATIVE INLET COOLING SYSTEMS; THREE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM GENERATORS (HRSG) WITH SELECTIVE CATALYTIC REDUCTION (SCR)	DRY LOW NOX									
FL-0303	ENERGY CENTER UNIT 3	7/30/2008	Y-FIRED HRSG	GAS	2333	MMBTU/H	REACTORS AND A COMMON NOMINAL 500 MW STEAM-ELECTRICAL GENERATOR.	SELECTIVE CATALYST REDUCTION	2	PPMVD	24 HOURS	8	PPMVD	24 HOURS	0		
			300 MW COMBINED				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.										
	CANE ISLAND POWER		CYCLE COMBUSTION	NATURAL			These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct										
FL-0304	PARK	9/8/2008	TURBINE	GAS	1860	MMBTU/H	humers	SCR	2	PPMVD	24-HR	0			0		
							Basis for the emission standard is either NSPS Subpart KKKK or Department BACT determinations										
							The BACT emission standards for NOX while operating in combined cycle are more stringent										
FL-0337	POLK POWER STATION	10/14/2012	Combine cycle power block (4 on 1) COMBINED	natural gas	1160	MW	than the corresponding Subpart KKKK emissions standards of 15 and 42 ppmvd @15% O2 on a 30-day rolling average for natural gas and fuel oil, respectively.	SCR/DLN	2	PPMVD	24-HR BLOCK (GAS) CEMS	8	PPMVD	24-HR BLOCK (OIL) CEMS	0		
			COMBINED								,,			,		1	
			COMBUSTION											12			
			TURBINE - ELECTRIC					DRY LOW NOX BURNERS,			3 HOUR			CONSECUTIVE MONTH			
			GENERATING	NATURAL				SELECTIVE CATALYTIC			AVERAGE/COND			AVERAGE/CONE			
GA-0138	LIVE OAKS POWER PLANT	4/8/2010	PLANT	GAS	600	MW		REDUCTION	2.5	PPMVD	ITION 2.11 30-DAY	87	T/YR	ITION 2 12-MONTH	0	+	
	MARSHALLTOWN		Combustion turbine				two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258				ROLLING AVG.			ROLLING			
*IA-0107	GENERATING STATION	4/14/2014	#1 - combined cycle	natural gas	2258	mmBtu/hr	mmBtu/hr generating approx. 300 MW each.	Low-NOx burners and SCR	2	PPMVD	@15% O2 30-DAY	114.5	T/YR	TOTAL 12-MONTH	0	+	
	MARSHALLTOWN		Combustion turbine								ROLLING			ROLLING			
*IA-0107	GENERATING STATION	4/14/2014	#2 -combined cycle	natural gas	2258	mmBtu/hr		SCR, Low-NOx burner LOW NOX BURNERS AND	2	PPMVD	AVERAGE	114.5	T/YR	TOTAL	0		
			GAS TURBINES -					SELECTIVE CATLYTIC REDUCTION			HOURLY			ANNUAL			ANNUAL
LA-0192	CRESCENT CITY POWER	6/6/2005	187 MW (2) Combined Cycle		2006	MMBTU/H		(SCR) ADD-ON CONTROLS	21.8	lb/hr	MAXIMUM	95.5	T/YR	MAXIMUM	3	PPM	AVERAGE
	SABINE PASS LNG		Refrigeration Compressor								HOURLY						
LA-0257	TERMINAL	12/6/2011	Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4	water injection	22.94	lb/hr	MAXIMUM	0			20	PPMV	AT 15% O2
			Combined cycle				This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator (HRSG)										
			combustion turbine								24-HR ROLLING			24-HR ROLLING			
*MI-0402	SUMPTER POWER PLANT	11/17/2011	w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG	Low NOx burners	9	PPMVD	AVERAGE	36.9	lb/hr	AVERAGE	0	+	
			Natural gas fueled				Equipment is permitted as following flexible group (FG):										
			combined cycle combustion turbine				FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				EACH CTG: 24-H						
*MI-0405	MIDLAND COGENERATION VENTURE	4/23/2013	generators (CTG) with HRSG	Natural gas	2237	MMBTU/H	to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and a selective catalytic reduction (SCR) system. Natural gas irred CTG with DB for HRSG; 4 total.	catalytic reduction (SCR) system.	2	PPMVD	ROLLING AVG.	16.2	lb/hr	EACH CTG; 24-H ROLLING AVG.	0		
		1									1						
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
							Permit was issued for either of two F Class turbine technologies with slight variations in										
			FGCCA or FGCCB-]			emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be										
	THETFORD GENERATING	L	4 nat. gas fired CTG			MMBTU/H heat input,	rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up	Low NOx burners and selective catalytic			24-H ROLLING		L.		ļ.		
*MI-0410	STATION	7/25/2013	w/ DB for HRSG TURBINE,	natural gas	2587	each CTG	to 1,400 MW.	reduction. SELECTIVE CATALYTIC	3	PPMVD	AVERAGE	760	Ib/hr	1-H AVERAGE	0	+	+
NJ-0074	WEST DEPTFORD ENERGY	5/6/2000	COMBINED CYCLE	NATURAL	17298	MMFT3/YR		REDUCTION (SCR) AND WATER INJECTION	0.01	LB/MMBTU	3 HR ROLLING AVERAGE	,	PPMVD	3 HR ROLLING AVERAGE	l.		
155-0074	WEST DEFTFORD ENERGY	3/0/2009		UAS	1/290	IVINIT 13/1K	Natural Gas Usage ← 33,691 MMft^3/yr	EVILC TRUN	0.01	LO/MINISTU	AVERAGE	-	CEMVD	AVERAGE		+	†
	PSEG FOSSIL LLC		Combined Cycle Combustion Turbine				per 365 consecutive day period, rolling one day basis (per two turbines and two duct				3-HR ROLLING			AVERAGE OF			
	SEWAREN GENERATING		-Siemens turbine				burners)	Selective Catalytic Reduction and Dry			AVE BASED ON			THREE ONE			
*NJ-0081	STATION	3/7/2014	without Duct Burner COMBINED	Natural gas	33691	MMCubic ft/yr	The heat input rate of each Siemens combustion turbine will be 2,356 MMBtu/hr(HHV)	Low NOx	2	PPMVD	1-HR BLOCK	19	fb/hr	HOUR TESTS	0	+	+
			CYCLE COMBUSTION TURBINE WITHOUT DUCT				Natural Gas Usage ← 33,691 MMfr ² 3/yr per 365 consecutive day period, rolling one day basis (net two turbines and two duet										
	PSEG FOSSIL LLC		BURNER -				burners)				3-HR ROLLING		1	AVERAGE OF			
*NJ-0081	SEWAREN GENERATING STATION	3/7/2014	GENERAL ELECTRIC	Natural C	33691	MMCF/YR	The heat input rate of each General Electric combustion turbine will be 2,312	Selective Catalytic Reduction System (SCR) and Dry Low NOx	,	PPMVD	AVERAE BASED ON 1-HR BLOCK	16.9	lls/her	THREE ONE- HOUR TESTS	l.		
140-0081	STATION	317/2014	ELECTRIC	Natural Gas	23091	IMINICE/ I K	MMBtu/hr(HHV) This is a 427 MW Siemens Combined Cycle Turbine with duct burner	HOCK/ and Dry Low NOX	_	LUMAD	ON 1-DR BLUCK	10.6	4D/III	HOUR TESTS			—
			Combined Cycle				Heat Input rate of the turbine = 2276 MMbtu/hr (HHV) Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)	Selective Catalytic Reduction System			3-HR ROLLING			3-HR ROLLING			
	WEST DEPTFORD ENERGY		Combustion Turbine					(SCR) and use of natural gas a clean			AVE BASED ON			AVE BASED ON			
*NJ-0082	STATION	7/18/2014	without Duct Burner	Natural Gas	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burner.	burning fuel	2	PPMVD	1-HR BLOCK	17.33	lb/hr	1-HR BLOCK	0		

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVGTIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	ATHENS GENERATING		FUEL COMBUSTION	NATURAL			CATYALYTIC REDUCTION (SCR.) FOR NOX EMISSION CONTROL. NOX EMISSIONS FROM THE TURBINES ARE ADDITIONALLY CONTROLLED BY AMMONIUM	REDUCTION WITH AMMONIUM			3 HOUR BLOCK AVAEAGE/STEA			3 HOUR BLOCK AVAEAGE/STEA		PPMVD @ 15%	3 HOUR BLOCK AVAEAGE/STEA
NY-0098	PLANT	1/19/2007	(GAS) FUEL	GAS	3100	MMBTU/H	HYDROXIDE INJECTION.	HYDROXIDE INJECTION. DRY LOW NOX COMBUSTION TECHNOLOGY IN COMBINATION	2	PPMVD	DY STATE 3-HOUR BLOCK	23.4	lb/hr	3-HOUR BLOCK	2	02	DY STATE 3-HOUR BLOCK
NY-0100	EMPIRE POWER PLANT	6/23/2005	COMBUSTION (NATURAL GAS)	NATURAL GAS	2099	MMBTU/H	Two Mitsubishi 2932 MMBtwH combined cycle combustion turbines . both with 300	WITH SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM	2	PPMVD	AVE./ STEADY STATE	14.59	lb/hr	AVE/STEADY STATE	2	PPMVD AT 15% O2	AVE / STEADY STATE
	OREGON CLEAN ENERGY		2 Combined Cycle Combustion Turbines-Siemens.			MMSCF/rolling 12-	MMBtu ^H duet burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duet burners.	selective catalytic reduction (SCR); dry low NOx combustors; lean fuel						PER ROLLING 12			PPMVD AT 15%
*OH-0352	CENTER CENTER	6/18/2013	without duct burners	Natural Gas	515600	months	Short term limits are different with and without duct burners. This process without duct burners. Two Misuhishi 2932 MMRu/H combined cycle combustion turbines, both with 300	technology	22	lb/hr		92	T/YR	MONTHS 12	2	PPM	O2 15%
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	2 Combined Cycle Combustion Turbines-Mitsubishi without duct burners	, Natural Gas	47917	MMSCF/rolling 12-MO	MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.	selective catalytic reduction (SCR); dry low NOx combustors; lean fuel technology	22.6	lb/hr		94.8	T/YR	PER ROLLING 12 MONTHS	2	PPM	PPMVD AT 15% O2
	DUKE ENERGY HANGING		Turbines (4) (model GE 7FA) Duct	NATURAL			This process without duct burners. Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners off. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Dry Low NOx burners and Selective						PER ROLLING 12			PPMVD AT 15% O2 ON 3-H BLOCK
*OH-0356	PSO SOUTHWESTERN	12/18/2012	Burners Off GAS-FIRED	GAS	172	MW	burners.	Catalytic Reduction	21.1	lb/hr		120.9	T/YR	MONTHS	3	PPM	AVERAGE
OK-0117	POWER PLT	2/9/2007	TURBINES COMBINED CYCLE					DRY LOW NOX	9	PPMVD		0			0		
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	COGENERATION >25MW COMBINED	NATURAL GAS	1882	MMBTU/H	SIEMENS V84.3A	SCR AND DRY LOW-NOX	2	PPMVD	1-H AVG @ 15% O2	15.25	lb/hr	1-H AVG	0		
			COMBINED CYCLE NATURAL GAS-FIRED ELECTRIC GENERATING	NATURAL				SELECTIVE CATALYTIC			3-HOUR						
OR-0048	CARTY PLANT	12/29/2010	UNIT	GAS	2866	MMBTU/H	The Permittee shall select and install any of the turbine options listed below (or newer versions	REDUCTION (SCR)	2	PPMVD	3-HOUR ROLLING	0			0		
			COMBINED				of these turbines if the Department determines that such newer versions achieve equivalent or better emissions rates and exhaust parameters) 1. General Electric PFA (GE PFA) 2. Siemens SGT6-5000 FG (Mistashish G) Mistashish MS010 (Mistashish G)				WITH OR			INCLUDING START UP AND			
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	CYCLE UNITS #1 and #2	Natural Gas	3.4	MMCF/HR	Siemens SGT6-8000H (Siemens H) The emissions listed are for the Siemens SGT6-8000H unit.	SCR	2	PPMVD	WITHOUT DUCT BURNER	17.25	T/YR	SHUR DOWN	0		
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Turbine, Combined Cycle, #1 and #2	Natural Gas	3046	MMBtu/hr	Equipped with SCR and Oxidation Catalyst	SCR	131.6	T/YR	12-MONTH ROLLING TOTAL	0			0		
TX-0516	CITY PUBLIC SERVICE JK SPRUCE ELECTRICE GENERATING UNIT 2	12/28/2005	SPRUCE POWER GENERATOR UNIT NO 2						1600	lb/hr		1752	T/YR		0		
TX-0546	PATTILLO BRANCH POWER PLANT	6/17/2009	ELECTRICITY GENERATION	NATURAL GAS	350	MW	EACH TURBINE-HRSG WILL BE DESIGNED TO OUTPUT 350 MW. TURBINES BEING CONSIDERED FOR THE PROJECT ARE GE 7FA, GE 7FB, AND SIEMENS SGT6- 5000F.	SELECTIVE CATALYTIC REDUCTION	2	PPMVD	@ 15% O2 24-HF ROLLING AVG	0			0		
							The plant will be designed to generate 1,350 nominal megawatts of power. There are two configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode (Scenario A) or four GE Frame TFA CTGs in combined cycle mode (Scenario B). Scenario B				1-HOUR						
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural gas	1350	MW	also includes one or two auxiliary boilers. (2) GF7FA at 19 MW each, (1) steam turbine at 200 MW.	DLN burners and SCR	2	PPMVD	AVERAGE ROLLING 24-HR	0			0		
TX-0600	THOMAS C. FERGUSON POWER PLANT	9/1/2011	Natural gas-fired turbines	natural gas	390	MW	Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which provides steam for the steam turbine.	Dry low NOx burners and Selective Catalytic Reduction	2	PPMVD	AT 15% OXYGEN	0			0		
			Combined cycle gas				The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a maximum base-load electric power output of approximately 195 megawatts (MW). The steam turbine is rated at approximately 235 MW. This project also includes the installation of two				@15% O2, 24-HR						
TX-0620	ES JOSLIN POWER PLANT	9/12/2012	turbine	natural gas	195	MW	emergency generators, one fire water pump, and auxiliary equipment. No duct burners.	Selective catalytic reduction	2	PPMVD	ROLLING AVG CORRECTED TO	0		+	0		+
*TX-0660	FGE TEXAS POWER I AND FGE TEXAS POWER II	3/24/2014	Alstom Turbine	Natural Gas	230.7	MW	Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity 409 MMBtu/hr	Selective catalytic reduction	2	PPMVD	15% O2, ROLLING 24 HR AVE	0			0		
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY		Combustion Turbine	natural gas	87	MW	The exhaust heat from the turbine will be used to heat a heating medium which is used to regenerate rich amine from the acid gas removal system.	Selective Catalytic Reduction	2	PPMVD	15@ O2, 3 HOUR ROLLING AVERAGE	0			0		
*TX-0689	CEDAR BAYOU ELECTRIC GENERATION STATION	8/29/2014	Combined cycle natural gas turbines	Natural Gas	225	MW	- HAND	DLN, SCR	2	PPMVD	24HR ROLLING AVG.	0					
			(4) cogeneration		00	MW	(A) CF TFA Ali	DLN and Closed Loop Emissions			@15% O2, 3-HR ROLLING						
*TX-0698	SAND HILL ENERGY	9/5/2013	Natural gas-fired	natural gas	90	INIW	(4) GE 7EA turbines providing power and process steam	Controls (CLEC)	,	PPMVD	AVERAGE	0			10		+
*TX-0709	SAND HILL ENERGY CENTER	9/13/2013	combined cycle turbines	Natural Gas	173.9	MW	The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion	SCR	2	PPMVD	24HR ROLLING AVG.	0	-		0		
*TX-0712	TRINIDAD GENERATING FACILITY	11/20/2014	combined cycle turbine	natural gas	497	MW	turbine nominally rated at 497 megawatts (MW) equipped with a HRSG and DB with a maximum design capacity of 402 million British thermal units per hour (MMBtu/hr). The gross nominal output of the CTG with HRSG and DB is 530 MW.	Selective Catalytic Reduction	2	PPMVD	@15% O2, 24-HR ROLLING AVERAGE	0			0		
ATTV 0	COLORADO BEND ENERGY		Combined-cycle gas turbine electric	1	1100		combined cycle power plant that uses two combustion turbines and one steam turbine, model	acon I III		pp. 47.	24 110 :						
*TX-0730	CENTER	4/1/2015	generating facility COMBINED CYCLE TURBINE	natural gas	1100	MW	GE 7HA.02	SCR and oxidation catalyst Two-stage, lean pre-mix dry low-NOx combustor and a selective catalytic	2	PPMVD	24-HR AVERAGE	U		ONE HOLD	U		<u> </u>
VA-0315	WARREN COUNTY POWER PLANT - DOMINION	12/17/2010	& amp; DUCT BURNER, 3 COMBUSTION	Natural Gas	2996	MMBTU/H	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	reduction (SCR) control system using ammonia injection.	2	PPMVD	ONE HOUR AVERAGE	25.3	lb/hr	ONE HOUR AVERAGE	0		
*VA-0321	BRUNSWICK COUNTY POWER STATION	3/12/2013	TURBINE GENERATORS, (3)	Natural Gas	3442	MMBTU/H	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners (natural gas-fired).	Selective catalytic reduction and ultra low NOx burners.	2	PPMVD @ 15% O2	l H AVG	0			0		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	BRACESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KBLCID	FACILITY NAME	DATE	Large combustion	FUEL	THROUGHPUT	THROUGHPUT UNIT	Throughput and Units above are for the GEF7.05.	DESCRIPTION	LIMIT	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
	GREEN ENERGY		turbines				Throughput and Onits above are for the GEF 7.03.	Selective Catalytic Reduction (SCR),									
	PARTNERS/ STONEWALL,		(>25MW) CCT1				Siemens SGTF-5000F5:	with ammonia injection and dry low NOx									
*VA-0322	LLC	4/30/2013	and CCT2	Natural Gas	2.23	MMBTU/hr	Throughput: 2.260 MMBTU/hr	combusion.	0			0			0		
	CHEYENNE PRAIRIE		Combined Cycle											30-DAY ROLLING			
*WY-0070	GENERATING STATION	8/28/2012	Turbine (EP01)	Natural Gas	40	MW		SCR	3	PPMVD	1-HOUR	4.6	lb/hr	AVERAGE	25.5	T/YR	
														30-DAY			
	CHEYENNE PRAIRIE		Combined Cycle			l								ROLLING AVERAGE			
*WY-0070	GENERATING STATION	8/28/2012	Turbine (EP02)	Natural Gas	40	MW		SCR	3	PPMVD	1-HOUR 3-hour block	4.6	lb/hr	3-hour block	25.5	T/YR	+
											average; Duct			average; Duct			
	Astoria Energy LLC		Combustion Turbine	Natural Gas	1000	MW		SCR/Low NOx Burners	2	PPMVD	Burners Off	15.6	lb/hr	Burners Off			
								Pipeline quality low sulfur NG; DLN combustion design; Low NOx burners;									
	Catoctin Power LLC		Combustion Turbine	Natural Gas	170	MW		SCR	2	PPMVD	Duct Burners Off						
	Footprint Power Salem Harbor										1-hr average; Duct			1-hr average; Duct			
	Development LP		Combustion Turbine	Natural Gas	346	MW		SCR/Low NOx Burners	17	lb/hr	Burners Off	0.0074	lb/MMBtu	Burners Off			
	Footprint Power Salem Harbor Development LP		Combonian Tookina	Notes I Con	246	MW		SCR/Low NOx Burners	2	PPMVD	1-hr average; Duct Burners Off	0.051	lb/MW-hr	1-hr average; Duct Burners Off			
	Development LF		Combustion Turbine	Naturai Gas	340	WIW		SCR/Low NOX Burners	2	FFMVD	Burners Off	0.031	ID/M W-III	Burners On			+
	Kalama Energy Center		Combustion Turbine	Natural Gas	2247	MMBtu/hr		SCR	2	PPMVD	1-hr average	18.5	lb/hr	1-hr average			
	r. r. c.				2247	MMBtu/hr		SCR		DD1 (I ID	20.1	102.4	T/YR	l.,			
	Kalama Energy Center	1	Combustion Turbine	ivaturai Gas	224/	www.Btu/nr		SUR	13	PPMVD	30-day average	102.4	1/1K	12-mo rolling	 		+
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	MMBtu/hr			2.5	PPMVD			1	1			
	PacifiCorp Energy		Block 1 CT	Natural Gas					2	PPMVD	3-hour	14.9	lb/hr				$\overline{}$
	PacifiCorp Energy	-	Block 2 CT	Natural Gas	629	MW		+	2	PPMVD	3-hour	14.9	lb/hr	+	-		+
	Pioneer Valley		Combustion Turbine	Natural Gas	387	MW			2	PPMVD	1-hr average		1	1			
	Pioneer Valley		Combustion Turbine	Natural Gas	387	MW			40	PPMVD							
	Russell City Energy Company,		Combustion Turbine	Notes I Con	2038.6	MMBtu/hr			2	PPMVD	1 1						
	Sevier Power Company Power		Combustion Turbine	Naturai Gas	2038.6	MMBtu/hr			 	PPMVD	1-hr average			+		1	+
	Plant		Combustion Turbine	Natural Gas	580	MW			2	PPMVD	3-hr average						
	CPV Valley Energy Center								_								
	Wawayanda, NY Woodbridge Energy Center			Natural Gas	630	MW			2	PPMVD	3-hr average						+
	(CPV Shore, LLC)			Natural Gas	2307	MMBtu/hr			2	PPMVD							
	PA STATE UNIV/UNIV PARK CAMPUS		COMBINED HEAT AND POWER DUAL-FIRED COMBUSTION TURBINE	Natural Gas	86.29	MMBtu/hr			15	PPMVD							
									_								
	Hummel Station LLC		Combustion Turbine	Natural Gas	2254	MMBtu/hr			2	PPMVD		18.4	lb/hr				+
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW			2	PPMVD	1-hr average						
	Effingham County Power Gibson County Generation,		Combustion Turbine	Natural Gas	180	MW			2	PPMVD	3-hr average		-				+
	LLC		Combustion Turbine	Natural Gas	417	MW			2	PPMVD	24-hr average	0.0073	lb/MMBtu				
																	_
	Pioneer Valley Energy Center	-	Combustion Turbine	Natural Gas	2542	MMBtu/hr			2	PPMVD		20.2	lb/hr		-		+
	McDonough-Atkinson Steam-										30 day rolling		1	1			
	Electric Generating Plant			Natural Gas					6	PPMVD	average						
	Russell City Energy Company,				I	I						16.5	T				
	LLC		Combustion Turbine	Natural Gas	2038.6	MMBtu/hr			2	PPMVD	1-hour	16.5	lb/hr	1	-		+
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	3147	MMBtu/hr			2	PPMVD		26.5	lb/hr	1			
	UGI Development Co/ Hunlock																
	Creek		Combustion Turbine		471.2	MMBtu/hr MW		+	2.5	PPMVD lb/MMBtu	2 h	185.64	T/YR		-		+
	Hawkeye Generating, LLC		+	Natural Gas	013	NI W		+	0.011	io/MMBtu	3-hr rolling	163.64	I/TR	+	 	 	+
	Hess Newark Energy Center		Combustion Turbine	Natural Gas	2320	MMBtu/hr			2	PPMVD	3-hr rolling	0.0073	lb/MMBtu				
											3-hour average,						
	York Energy Center Block 1		1		1574	MMBtu/hr		+	2	PPMVD	rolling by 1-hour 3-hour block		1	+	1		+
											average; average of		1	1			
	York Energy Center Block 2	6/15/2015			2512.5	MMBtu/hr	firing NG without duct burner		2	PPMVD	3 test runs						
	Shell Chemical																
	Appalachia/Petrochemicals Complex	6/18/2015			664	MMBtu/hr	each turbine/duct burner		2	PPMVD	1-hour average	lb/br	1	1			
	Calpine/Bethlehem Energy	0.10.2013			007		Calculations and countil		ľ		- nous average	normal .					1
	Center				122	MW			2.5	PPMVD PPMVD							
	Liberty Electric Power, LLC	1			1954	MMBtu/hr	Without DB	1	3.5	PPMVD		l	1	1		1	

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME KILLINGLY ENERGY	DATE	PROCESS NAME Natural Gas w/Duct		THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
T-0161	CENTER	6/30/2017	Firing	Natural Gas	2639	MMBtu/hr	Duct burner MRC is 946 MMbtu/hr	Oxidation Catalyst	1.7	LB/MMBTU	1 HOUR BLOCK	0			0		
								Catalytic Oxidation and good combustion	1								
	ST. CHARLES POWER		SCPS Combined					practices during normal operations, and good combustion practices during			HOURLY			ANNUAL			24-HOUR ROLLING
.A-0313	STATION	8/31/2016	Cycle Unit 1A	Natural Gas	3625	MMBTU/hr		startup/shutdown operations.	125.21	LB/H	MAXIMUM	388.55	T/YR	MAXIMUM	2	PPM@15% O2	AVERAGE
								Catalytic oxidation and good combustion									
								practices during normal operations, and									24-HOURLY
.A-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	3625	MMBTU/hr		good combustion practices during startup/shutdown operations.	125 21	LB/H	HOURLY MAXIMUM	388.55	T/YR	ANNUAL MAXIMUM	2	PPM@15% O2	ROLLING AVERAGE
			Cycle Unit 1B FG-TURB/DB1-3 (3														
			combined cycle combustion turbine				Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG)										
	NEW COVERT		and heat recovery				trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped with dry low NOx combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fired duct				EACH CT/HRSG			EACH CT/HRSG TRAIN; 12-MO			
MI-0432	GENERATING FACILITY	7/30/2018	steam generator trains)	Natural gas	1230	MW	burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	Oxidation catalyst technology and good combustion practices.	2	PPMVD	TRAIN; 24-HR ROLL AVG	357	T/YR	ROLL TIME PER	L 0		
			EUCTGHRSG (South Plant): A				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery										
			combined cycle				steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a										
			natural gas-fired combustion turbine				nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755							OPERATING HR			
			generator with heat				MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The				AT 15%O2;			DURING	•		
MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	recovery steam generator.	Natural gas	500	MAN	HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	Oxidation catalyst technology and good	١,	PPMV	240HR ROLL AVG: NOT S.S.	700 6	I D.II	STARTUP OR SHUTDOWN	0		
NII-0433	MEC SOUTH LLC	6/29/2018	generator.	Naturai gas	300	MW		combustion practices.	-	FFMV	AVG; NOT S.S.	788.0	LB/H	SHUIDOWN	0		
		1					Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV).							1			
		1	EUCTGHRSG											1			
		1	(North Plant): A combined-cycle				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a							1			
		1	natural gas-fired				nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080										
			combustion turbine generator with heat				MMBTU/hr (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The				AT 15%O2; 24-H			OPERATING HR DURING			
	MEC NORTH, LLC AND		recovery steam				HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped	Oxidation catalyst technology and good			ROLL AVG; NOT			STARTUP OR			
MI-0433	MEC SOUTH LLC	6/29/2018	generator.	Natural gas	500	MW	with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	combustion practices.	4	PPMVD	INCL ST/SH	788.6	LB/H	SHUTDOWN	0		
							1. ONE GENERAL ELECTRIC (GE) 7HA.02 CCCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT										
							AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF:										
							O 3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING										
							NATURAL GAS O 3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD										
							WHICH WILL BE THE BACKUP FUEL										
							OTHER EQUIPMENT INCLUDES: 2. ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599										
							MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING.										
							3. ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR										
							CONTROL OF NOX EMISSIONS:										
							4. ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED										
			Combined Cycle				EMERGENCY FIRE PUMP; 5. ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED							AV OF THREE			
			Combustion Turbine				EMERGENCY GENERATOR; AND				3 H ROLLING A	v		ONE H STACK			
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	firing Natural Gas with Duct Burner	natural ass	4000	h/or	6. ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.	Oxidation Catalyst and good combustion	,	PPMVD@15%O2	BASED ON ONE H BLOCK AV	18 1	I R/H	TESTS EVERY 5	0		
0 0000	TENASKA PA	371372010		Intuition gass	1000	12.71	Dict I Coolaid Toward	practices		11.11110(0,137002	III DEGCICAL	10.1	2221				
PA-0306	PARTNERS/WESTMORELA ND GEN FAC	2/12/2016	Large combustion turbine	Natural Gas	0		This process entry is for operations with the duct burner. Limits entered are for each turbine	Oxidation Catalyst and good combustion	15.9	I.B/HR	3 HR AVERAGE	318.6	TPV	12 MONTH ROLLING BASIS	. 0		
							This process entry is for operations with the duct burner. Limits entered are for each turbine. Emission limits are for each turbine operating with duct burner and do not include										
							startup/shutdown emissions. Tons per year limits is a cumulative value for all three CCCT. CEMS for NOx, CO, and O2.										
							Each CCCT and duct burner have 5 operational scenarios:										
							CCCT with duct burner fired - fueled by NG only CCCT with duct burner fired - fueled by NG blend with ethane										
			Combustion turbine				3 CCCT without duct burner fired - fueled by NG only	Oxidation catalyst operated at all steady									
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	and HRSG with due burner NG only	Natural Gas	3338	MMBtu/hr	4 CCCT without duct burner fired - fueled by NG blend with ethane 5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)	state operating loads and good combustion practices	2	PPMDV @ 15% O2		84.9	TONS	YEAR	0		
								· ·			30 UNIT-			15 UNIT-			
	JOHNSONVILLE	1	Natural Gas-Fired Combustion Turbine				Turbine throughput is 1019.7 MMBtu/hr when burning natural gas and 1083.7 MMBtu/hr when burning No. 2 oil. Duct burner throughput is 319.3 MMBtu/hr. Duct burner firing will	Good combustion design and practices,		PPMVD @ 15%	OPERATING- DAY MOVING		PPMVD @ 15%	OPERATING- DAY MOVING			
ΓN-0162	COGENERATION	4/19/2016	with HRSG	Natural Gas	1339	MMBtu/hr	occur during natural gas combustion only.	oxidation catalyst	2	02	AVERAGE	10	02	AVERAGE	0		
		1	Combined Cycle Turbine with Heat														
		1	Recovery Steam														
		1	Generator, fired Duct Burners, and														
F11 001 -	GAINES COUNTY POWER	4000015	Steam Turbine	NATURAL		Leny.	Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam	Selective Catalytic Reduction (SCR) and		nn. a.r.	150/ 05 5 5 5			1			
TX-0819	PLANT	4/28/2017	Generator COMBUSTION	UAS	426	MW	Turbine Generators	Dry Low NOx burners	12	PPMVD	15% O2 3-H AVO	1 0	+		U		
		1	TURBINE GENERATOR											1			
			WITH DUCT-	1													
		1	FIRED HEAT														
	GREENSVILLE POWER	1	RECOVERY STEAM											12 MO ROLLING	ì		
VA-0325	STATION	6/17/2016	GENERATORS (3)	natural gas	3227	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	Oxidation Catalyst	1.6	PPMVD	3 HR AVG	286	TONS/YR	AVG	0		
	HARRISON COUNTY	1					Nominal 640 mWe All emission limits steady-state and include 1000 mmBtu/hr Duct Burner in operation	Oxidation Catalyst, Good Combustion			1-HOUR			1			
WV-0029	POWER PLANT	3/27/2018	GE 7HA.02 Turbine	Natural Gas	3496.2	mmBtu/hr	Short Term startup and shutdown limits in lb/event given in permit.	Practices	20	LB/HR	AVERAGE	124	TONS/YEAR	+	2	PPM	
CA-1144	BLYTHE ENERGY PROJECT	4/25/2007	2 COMBUSTION TURBINES	NATURAL GAS	170	MW	EACH TURBINE WILL PRODUCE 170 MW		4	PPMVD	AT 15% O2, 3-HI AVG	18	lb/hr		0		
			COMBUSTION TURBINE #2														
		1	(NORMAL											1			
	LICOTORUM LE A LINES	1	OPERATION,								@15% O2, 1-HR						
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	WITH DUCT BURNING)	NATURAL GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	OXIDATION CATALYST SYSTEM	3	PPMVD	AVG (W/ DUCT BURNING)	13.35	lb/hr	1-HR AVG (W/ DUCT BURNING	0		
			,		1.00				r-	,	,		1	, DOM: NINC	4.		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			COMBUSTION TURBINE #1													
			(NORMAL OPERATION,													
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	WITH DUCT BURNING)	NATURAL GAS	180	MW	OXIDATION CATALYST SYSTEM	2	PPMVD	@15% O2, 1-HR AVG	10	lb/hr	1-HR AVG	0		
			COMBUSTION TURBINE													
			GENERATOR, 2 units (Normal	NATURAL		Each CTG system will generate 166 MW under design ambient conditions with steam power				@15% O2, 1-HR						
CA-1195	ELK HILLS POWER LLC	1/12/2006	Operation) COMBUSTION	GAS	166	MW augmentation from the duct burners, and 153 MW without steam augmentation.	SCR OR SCONOX	4	PPMVD	AVG	12.5	lb/hr	1-HR AVG	0		
			TURBINE GENERATORS													
CA-1209	HIGH DESERT POWER PROJECT	3/11/2010	(NORMAL OPERATION)	NATURAL GAS	190	THREE (3) COMBUSTION TURBINE GENERATORS AT 190 MW EACH AND MW EQUIPPED WITH A 160 MMBTU/HR DUCT BURNER AND HRSG	OXIDATION CATALYST SYSTEM	4	PPMVD	@15% O2, 24-HR AVG	17.53	lb/hr	24-HR AVG	0		
			COMBUSTION TURBINES													
CA-1211	COLUSA GENERATING STATION	3/11/2011	(NORMAL OPERATION)	NATURAL GAS	172	TWO (2) NATURAL GAS FIRED TURBINES AT 172 MW EACH. BOTH TURBINES MW EQUIPPED WITH A 688 MMBTU/HR DUCT BURNER AND HRSG.	CATALYTIC OXIDATION SYSTEM	3	PPMVD	@15% O2, 3-HR ROLLING AVG	17.9	lb/hr	3-HR ROLLING AVG	0		
			NATURAL-GAS FIRED,				USE GOOD COMBUSTION CONTROL									
O-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	5/2/2006	COMBINED- CYCLE TURBINE	NATURAL GAS	300	ONE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING MW FACILITY.	PRACTICES AND CATALISTIC OXIDATION.	3	PPM @ 15% O2		0.044	LB/MMBTU	MONTHLY AV	3	PPM @ 15 O2	
			SIEMENS SGT6-													
			5000F COMBUSTION			THROUGHPUT IS FOR TURBINE ONLY WHEN FIRING NATURAL GAS										
			TURBINE #1 AND #2 (NATURAL			TURRINE: 2136 MMRTI/HR (2 095 MMCE/HR)										
			GAS FIRED) WITH 445 MMBTU/HR			DUCT BURNER: 445 MMBTU/HR (0.436 MMCF/HR)										1 HR-BLOCK
CT-0151	KLEEN ENERGY SYSTEMS,	2/25/2008	NATURAL GAS DUCT BURNER	NATURAL	2.1	EMISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS, MMCF/H NOT COMBINED.	CO CATLYST	4.2	lls/lor	W/OUT DUCT BURNER	9.4	lls/her	W/DUCT BURNER	0.0	PPMVD @ 15 %	(W/OUT DUCT BURNER)
21-0131	NRG ENERGY CENTER	2/23/2006	DOCT BORNER	UAS	2.1	S00 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified	COCATETST	4.5	IO III	1 HOUR	0.4	io iii	1 HOUR	0.9	02	BURNER)
DE-0023	DOVER	10/31/2012	UNIT 2- KD1	Natural Gas	655	MMBTU/H CEMS and COMS.	Oxidation Catalyst System	19.54	lb/hr	AVERAGE	0.032	LB/MMBTU	AVERAGE	0		
						GENERATING CAPACITY: EACH OF THE FOUR GAS TURBINES HAS A NOMINAL GENERATING CAPACITY OF 170 MW FOR GAS FIRING (180 MW FOR OIL FIRING).										
						EACH OF THE FOUR HEAT RECOVERY STEAM GENERATORS (HRSGS) PROVIDES STEAM TO THE SINGLE STEAM TURBINE ELECTRICAL GENERATOR, WHICH HAS										
						A NOMINAL CAPACITY OF 470 MW. THE TOTAL NOMINAL GENERATING										
						CAPACITY OF THE 4-ON-1 COMBINED CYCLE UNIT IS 1150 MW.										
						FUELS: EACH GAS TURBINE WILL FIRE NATURAL GAS AS THE PRIMARY FUEL AND ULTRA LOW SULFUR (0.0015% SULFUR) DISTILLATE OIL AS A RESTRICTED										
						ALTERNATE FUEL. EMISSIONS OF ALL POLLUTANTS INCREASE WITH THE FIRING OF OIL. THE APPLICANT REQUESTS 500 HOURS PER YEAR PER GAS										
			170 MW COMBUSTION			TURBINE (OR EQUIVALENT) FOR OIL FIRING.	CO WILL BE MINIMIZED BY THE EFFICIENT COMBUSTION OF			24-HR AVG.			STACK TEST (CT	,		STACK TEST (CT
L-0263	FPL TURKEY POINT POWER PLANT	2/8/2005	TURBINE, 4 UNITS	NATURAL	170	MODES OF OPERATION: STANDARD NORMAL OPERATION, WITH DUCT MW BURNER, POWER AUGMENTATION AND PEAKING.	NATURAL GAS AND DISTILLATE OIL AT HIGH TEMPERATURES	8	PPMVD @ 15 %	TIME (CT & DUCT BURNER)	4.1	PPMVD @ 15 %	NORMAL OPERATION)	7.6	PPM @ 15 % O2	& DUCT BURNER)
L-0265	HINES POWER BLOCK 4	6/8/2005		NATURAL GAS	530	MW	GOOD COMBUSTION	8	PPM	NATURAL GAS	12	PPM	OII.	8	PPM @ 15% O2	
			COMBINED CYCLE													
	PROGRESS BARTOW		COMBUSTION TURBINE	NATURAL		1876 MMBTU/HR WHEN FIRING DISTILLATE FUEL OIL. THE SYSTEM NOMINAL CAPACITY 1280 MW. EACH UNIT NOMINAL CAPACITY				24-HR BLOCK						
L-0285	POWER PLANT	1/26/2007	SYSTEM (4-ON-1)		1972		GOOD COMBUSTION	8	PPMVD	AVERAGE CEMS	0			0		
						EACH COMBINED CYCLE UNIT SYSTEM (TWO ''3-ON-1'')										
						WILL CONSIST OF: THREE NOMINAL 250 MEGAWATT MODEL 501 G AS TURBINE-ELECTRICAL GENERATOR SETS WITH EVAPORATIVE INLET COOLING										
						SYSTEMS; THREE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM										
			COMBINED CYCLE			GENERATORS (HRSGÂ;S) WITH SCR REACTORS; ONE NOMINAL 428 MMBTU/HOUR (LHV) GAS-FIRED DUCT BURNER LOCATED WITHIN EACH OF THE										
	FPL WEST COUNTY		COMBUSTION GAS TURBINES -	NATURAL		THREE HRSG¿S; THREE 149 FEET EXHAUST STACKS; ONE 26 CELL MECHANICAL DRAFT COOLING TOWER; AND A COMMON NOMINAL 500 MW										
L-0286	ENERGY CENTER	1/10/2007	6 UNITS	GAS	2333	MMBTU/H STEAM-ELECTRICAL GENERATOR. FUELHEAT INPUT RATE (LHV): OIL2.117 MMBTU/H		8	PPMVD @15%O2	24-HR	0			0		
			THREE NOMINAL			COMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE NOMINAL 250 MW COMBUSTION TURBINE-ELECTRICAL GENERATORS (CTG) WITH EVAPORATIVE										
			250 MW CTG (EACH) WITH			INLET COOLING SYSTEMS; THREE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM GENERATORS (HRSG) WITH SELECTIVE CATALYTIC REDUCTION (SCR)										
L-0303	FPL WEST COUNTY ENERGY CENTER UNIT 3	7/20/2009	SUPPLEMENTAR Y-FIRED HRSG	NATURAL GAS	2222	REACTORS AND A COMMON NOMINAL 500 MW STEAM-ELECTRICAL MMBTU/H GENERATOR.	GOOD COMBUSTION	6	PPMVD (GAS)	12-MONTH		PPMVD (OIL)	24-HOUR	0		
20303	ENERGY CENTER UNIT 3	775412000	300 MW COMBINED	GAS.		CHARATOR.	GGGD COMBOSTION		mvD(UAS)	.2-WONTH		LIVIYD (OIL)	24HOOR			
	CANE ISLAND POWER		CYCLE COMBUSTION	NATURAL												
L-0304	PARK PARK	9/8/2008	TURBINE COMBINED	GAS	1860	MMBTU/H	GOOD COMBUSTION PRACTICES	6	PPMVD	12-MONTH	8	PPMVD	24-HR	0		
	DI LUTTU GENERALI GIO		CYCLE			6 TURBINES, 254 MW EACH (NOT INCLUDING STEAM RECOVERY), LIMITS ARE			nmam out							
GA-0127	PLANT MCDONOUGH COMBINED CYCLE	1/7/2008	COMBUSTION TURBINE	NATURAL GAS	254	FOR EACH TURBINE (MITSUBISHI MODEL M501G). BACKUP FUEL FOR TWO MW TURBINES IS ULTRA-LOW SULFUR FUEL OIL	OXIDATION CATALYST	1.8	PPMVD @ 15% O2	3-HOUR	0			0		
			L			Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners				30-DAY			12-MONTH			
IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	Combustion turbine #1 - combined cycle COMBUSTION	natural gas	2258	on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct mmBtu/hr burners.	catalytic oxidizer	2	PPM	ROLLING AVG. @15% O2	552.4	TON/YR	ROLLING TOTAL	0		
			TURBINE,				CATALYTIC OXIDATION (CATOX),									
	LANGLEY GULCH POWER		COMBINED CYCLE W/ DUCT	NATURAL		SIEMENS SGT6-5000F COMBUSTION TURBINE (NGCT, CCGT) FOR ELECTRICAL	DRY LOW NOX (DLN), GOOD COMBUSTION PRACTICES			3-HR ROLLING /			3-HR ROLLING / 15% O2 DURING			1-HR / 15% O2
D-0018	PLANT	6/25/2010	BURNER	GAS (ONLY)	2375.28	MMBTU/H GENERATION, NOMINAL 269 MW AND 2.1466 MMSCF/HR	(GCP)	2	PPMVD	15% O2 HOURLY AVG	24.5	PPMVD	LL	2510	LB/H	DURING SU/SD
			Electric Generation			Two combined cycle combustion turbines followed by HRSGs with capability for supplemental				EXCEPT DURING SSM OR						
						MW each fuel firing in HRSG for each combustion turbine using duct burners.										

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT		CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			FOUR (4) NATURAL GAS COMBINED				EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS FIRED DUCT BURNERS, AND A HEAT RECOVER'S STEAM GENERATOR IDENTIFIED AS HRSG#, NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	CYCLE COMBUSTION TURBINES	NATURAL GAS	2300	MMBTU/H	EMISSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	OXIDATION CATALYST	2	PPMVD	3 HOURS	0			0		
	PLAQUEMINE		(4) GAS TURBINES/DUCT	NATURAL			VISUAL INSPECTION FOR OPACITY ON A WEEKLY BASIS, STACK TESTS FOR PM, NOX, SO2, OPACITY, CO				HOURLY			ANNUAL		PPMVD @ 15%	ANNUAL
LA-0136	COGENERATION FACILITY	7/23/2008	BURNERS GAS TURBINES -	GAS	2876	MMBTU/H	EMISSION POINTS GT-500, -600, -700, -800.	GOOD COMBUSTION PRACTICES CO OXIDATION CATALYST AND	212.5	lb/hr	MAXIMUM HOURLY	625.8	T/YR	MAXIMUM ANNUAL	25	O2	AVERAGE ANNUAL
LA-0192	CRESCENT CITY POWER	6/6/2005	187 MW (2) TWO COMBINED		2006	MMBTU/H		GOOD COMBUSTION PRACTICES	17.7	lb/hr	MAXIMUM	77.5	T/YR	MAXIMUM	4	PPM @ 15%O2	AVERAGE
LA-0224	ARSENAL HILL POWER PLANT	2.00.0000	CYCLE GAS TURBINES	NATURAL		MMBTU/H	CTG-1 TURBINE/DUCT BURNER (EQT012) CTG-2 TURBINE/DUCT BURNER(EQT013)	PROPER OPERATING PRACTICES							10	PPMVD@15%O2	ANNUAL
LA-0224	PLANI	3/20/2008	COMBINED	GAS	2110	MMB1U/H		PROPER OPERATING PRACTICES	143.31	lb/hr	MAX	0			10	PPMVD@15%02	AVERAGE
	NINEMILE POINT ELECTRIC GENERATING		CYCLE TURBINE GENERATORS	NATURAL			TURBINES ALSO PERMITTED TO BURN NO. 2 FUEL OIL AND ULTRA LOW SULFUR DIESEL.	OXIDATION CATALYST AND GOOD		DDL EL EN COLLEGY	HOURLY					nm am - 160/	HOURLY
LA-0254	PLANT	8/16/2011	(UNITS 6A & amp; 6B) Combined Cycle	GAS	7146	MMBTU/H	FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR.	COMBUSTION PRACTICES	3	PPMVD @ 15% O2	AVERAGE	0			3	PPMVD @ 15% O2	AVERAGE
			Refrigeration														
LA-0257	SABINE PASS LNG TERMINAL	12/6/2011	Compressor Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4	Good combustion practices and fueled by natural gas	43.6	lb/hr	HOURLY MAXIMUM	0			58.4	PPMV	AT 15% O2
	SALEM HARBOR STATION		Combustion Turbine				two 315 MW (nominal) GE Energy 7F Series 5 Rapid Response Combined Cycle Combustion				1 HR AVG, DOES NOT APPLY			1 HR AVG, DOES NOT APPLY			
*MA-0039	REDEVELOPMENT	1/30/2014	with Duct Burner	Natural Gas	2449	MMBtu/hr	Turbines with Duct Burners and 31 MW (estimated) steam turbine generators TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE	oxidation catalyst	2	PPMVD@15% O2	DURING SS	0.0045	LB/MMBTU	DURING SS	0		
			2 COMBINED- CYCLE COMBUSTION	NATURAL			COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 725 MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION	OXIDATION CATALYST AND GOOD		PPMVD @ 15%	3-HOUR BLOCK AVERAGE, EXCLUDING						
*MD-0041	CPV ST. CHARLES	4/23/2014	TURBINES	GAS	725	MEGAWATT	CATALYST EACH TURBINE IS EQUIPPED WITH A HEAT RECOVERY STEAM GENERATOR	COMBUSTION PRACTICES	2	02	SU/SD	0			0		
			3 COMBUSTION TURBINES AND	NATURAL			(HRSG). EACH HRSG IS EQUIPPED WITH A NATURAL GAS FIRED DUCT BURNER (650 MMBTU/H). TOTAL NOMINAL PLAN GENERATING CAPACITY WITHOUT DUCT FIRING IS 800 MW. A MAX OUTPUT OF 1100 MW THROUGH			PPMDV @ 15%							
MI-0366	BERRIEN ENERGY, LLC	4/13/2005	DUCT BURNERS	GAS	1584	MMBTU/H	SUPPLEMENTAL FIRING OF HRSGS. This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator	CATALYTIC OXIDATION.	2	02	3-HOUR BLOCK	165.5	T/YR		2	PPM @ 15% O2	
			Combined cycle				(HRSG).										
*MI-0402	SUMPTER POWER PLANT	11/17/2011	combustion turbine w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG		0.048	LB/MMBTU	24-HR ROLLING AVERAGE	53.6	lb/hr	24-HR ROLLING AVERAGE	0		
			Natural gas fueled combined cycle combustion turbine				Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected										
*MI-0405	MIDLAND COGENERATION VENTURE	4/23/2013	generators (CTG) with HRSG	Natural gas	2227	MMBTU/H	to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a selective catalytic reduction (SCR) system.	Good combustion practices		nn. (EACH CTG; 24-H ROLLING AVG.	42.0		EACH CTG; 24-H ROLLING AVG.			
	MIDLAND COGENERATION		Natural gas fueled combined cycle combustion turbine generators (CTG)				This process is permitted in a flexible group format, identified in the permit as FG-CTG/DB1-2 and is for two natural gas fired CTGs with each turbine containing a hear tecovery steam generator (HRSO) to operate in combined ople. The two CTGs (with HRSO) are connected to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a selective caralytic reduction (SCR) system. Additionally, the HRSG is operating with a natural gas fred due burner for supplemental firing.				EACH CTG/DB; 24-H ROLLING			EACH CTG/DB;			
*MI-0405	VENTURE	4/23/2013	with HRSG and duct burner (DB)	Natural gas	2486	MMBTU/H	The throughput is 2,486 MMBTU/H for each CTG/DB. Natural gas fired CTG with DB for HRSG; 4 total.	Good combustion practices	10.5	PPM	AVG.	57.6	lb/hr	24-H ROLLING AVG.	0		
	THETFORD GENERATING		FGCCA or FGCCB- 4 nat. gas fired CTG			MMBTU/H heat input,	Technology A (4 total) is 2587 MMBTU/H design heat input each CTG. Technology B (4 total) is 2688 MMBTU/H design heat input each CTG. Technology B (4 total) is 2688 MMBTU/H design heat input each CTG. Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG trains driving one steam turbine electrical generator. Two 2XI Blocks. Each CTG will be rated at 211 to 230 MW (gross) output and the station nominal generating expensivy will be up	Efficient combustion control plus			24-H ROLL AVG DET. EACH H TURBINE						
*MI-0410	STATION	7/25/2013	w/ DB for HRSG	natural gas	2587	each CTG	to 1,400 MW. This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle natural gas-	catalytic oxidation system.	4	PPMV	OPERAT	3159	lb/hr	4-H ROLL AVG	0		
	HOLLAND BOARD OF		FG-CTGHRSG: 2 Combined cycle				fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSGs) equipped with duct burners for supplemental firing (EUCTGHRSG1 & EUCTGHRSG2 in FGGTGHRSG). The total hours for both units combined for startup and shutdown shall not				24-H ROLL. AVG., NOT			24-H ROLL. AVG., NOT			
*MI-0412	PUBLIC WORKS - EAST 5TH STREET	12/4/2013	CTGs with HRSGs with duct burners	natural gas	647	MMBTU/H for each CTGHRSG	exceed 635 hours per 12-month rolling time period. Each CTGHRSG shall not exceed 647 MMBtu/hr on a fuel heat input basis.	Oxidation catalyst technology and good combustion practices.	4	PPM	STARTUP/SHUT DOWN	5.31	lb/hr	STARTUP/SHUT DOWN	0		
	NORTHERN STATES POWER CO. DBA XCEL ENERGY - RIVERSIDE		TURBINE, COMBINED	NATURAL						PPMVD @ 15%							
MN-0066	PLANT	5/16/2006	CYCLE (2)	GAS	1885	mmbtu/h	TWO COMBUSTION TURBINES, THROUGHPUT FOR EACH Each of these units have a natural gas-fired heat recovery	GOOD COMBUSTION PRACTICES	10	O2 13%	3-HR BLOCK	0			10	PPM @ 15% O2	
			TURBINE, COMBINED CYCLE, NATURAL GAS.	NATURAL			Each of these units have a natural gas-fired heat recovery steam generator and a natural gas-fired dust burner. Each CT combusts natural gas as the primary fuel and very low- sulfur No. 2 fuel oil as a backup fuel. The use of fuel oil is limited to 1,200 hours per year and only during the months of November through March, and is listed as a separate process. These units are listed as a combined source off ultrue units for each type of	GOOD COMBUSTION PRACTICES									
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	(3)	GAS	1844.3	MMBTU/H	as a communea source (an timee units) for each type of fuel.	EFFICIENT PROCESS DESIGN.	11.6	PPM @ 15% O2	3-hour average	0			11.6	PPM @ 15% O2	
			TURBINE & amp; DUCT BURNER, COMBINED CYCLE, NAT GAS,	NATUDAL			Each of these units have a natural gas-fired HRSG & a natural gas fired duct burner. Limits for this process	GOOD COMBUSTION PRACTICES AND EFFICIENT PROCESS									
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	3	GAS	1844.3	MMBTU/H	natural gas fired duct burner. Limits for this process are for turbines and duct burners.	DESIGN PROCESS	25.9	PPM @ 15% O2	3-hr avg	0			25.9	PPM @ 15% O2	1
			TURBINE, COMBINED	NATURAL							3 HR ROLLING			3 HR ROLLING			
NJ-0074	WEST DEPTFORD ENERGY	5/6/2009	CYCLE COMBINED CYCLE	GAS	17298	MMFT3/YR	Natural Gas Usage <= 33,691 MMft^3/yr	CO OXIDATION CATALYST	0.01	LB/MMBTU	AVERAGE	2	PPMVD@15%O	2 AVERAGE	0		
*NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	COMBUSTION TURBINE WITH DUCT BURNER - SIEMENS	Natural Gas	33691	MMCUBIC FT PER YEAR	per 365 consecutive day period, rolling one day basis (per two Siemens turbines and two associated duct burners) The heat input rate of the Siemens turbine will be 2,356 MMBtu/hr(HHV) with a 62.1 duct burner MMBtu/hr(HHV).	Oxidation catalyst and use of only natural gas a clean burning fuel	2	PPMVD	3-HR ROLLING AVE BASED ON 1-HR BLOCK AVE	14	lb/hr	AVERAGE OF THREE ONE HOUR TESTS	0		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			COMBINED				Natural Gas Usage <= 33,691 MMft^3/yr										
			CYCLE COMBUSTION				Natural Gas Usage <= 33,691 MMft^3/yr per 365 consecutive day period, rolling one										
			TURBINE WITH				day basis (per two turbines and two duct	L			3-HR ROLLING						
	PSEG FOSSIL LLC SEWAREN GENERATING		DUCT BURNER - GENERAL				burners) The heat input rate of each General Electric combustion each turbine will be 2,312	CO Oxidation catalyst and good combustion practices and use of natural			AVERAGE BASED ON 1-HR			AVEARAGE OF THREE ONE			
*NJ-0081	STATION	3/7/2014	ELECTRIC	Natural gas	33691	MMCUF/year.	MMBtu/hr(HHV) with a 164.4 MMBtu/hr duct burner	gas only as a clean burning fuel	2	PPMVD@15%O2	BLOCK	11.1	lb/hr	HOUR TESTS	0		
							This is a 427 MW Siemens Combined Cycle Turbine with duct burner Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)										
			Combined Cycle				Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)				3-HR ROLLING			3-HR ROLLING			
*NJ-0082	WEST DEPTFORD ENERGY STATION	7/18/2014	Combustion Turbine with Duct Burner		20282	MMCF/YR		Oxidation catalyst and use of natural gas		PPMVD@15%O2	AVE BASED ON			AVE BASED ON 1-HR BLOCK			
*NJ-0082	CAITHNES BELLPORT	//18/2014	COMBUSTION	Natural Gas NATURAL	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners.	a clean burning fuel	1.5	PPMVD(@15%O2	1-HR BLOCK	10.5	lb/hr	1-HR BLOCK	0		+
NY-0095	ENERGY CENTER	5/10/2006	TURBINE	GAS	2221	MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	OXIDATION CATALYST	2	PPMVD@15%02		0			0		
			2 Combined Cycle				Two Siemens 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2										
			Combustion				Siemens or 2Mitsubishi, not both (not determined).										
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Turbines-Siemens, with duct burners	Natural Gas	51560	MMSCE/rolling 12-MO	Short term limits are different with and without duct burners. This process with duct burners	oxidation catalyst	13	lb/br		72.2	TAVE	PER ROLLING 12 MONTHS	2	PPM	PPMVD AT 15%
O11-0332	CENTER	0/10/2013		ivaturar Gas	31300	MINISCI/IOIIIII 12-MO	Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300	oxidation catalyst	13	IOIII		72.2	171K	MONTHS	1	TTW	02
			2 Combined Cycle Combustion				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined).										
	OREGON CLEAN ENERGY		Turbines-Mitsubishi,				Short term limits are different with and without duct burners.							PER ROLLING 12	2.		PPMVD AT 15%
*OH-0352	CENTER	6/18/2013	with duct burners	Natural Gas	47917	MMSCF/rolling 12-MO	This process with duct burners. Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	oxidation catalyst	12.7	lb/hr		183.9	T/YR	MONTHS	2	PPM	O2 PPMVD AT 15%
			Turbines (4) (model				Four GE: /FA combined cycle turbines, dry low NOX burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners										O2 ON 24-H
****	DUKE ENERGY HANGING	12/10/2012	GE 7FA) Duct	NATURAL	1,72		on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Good combustion practices burning				200	T. 4. T.	PER ROLLING 12	2	nn. (BLOCK
*OH-0356	ROCK ENERGY	12/18/2012	Burners On COMBUSTION	GAS	172	MW	burners.	natural gas	45.9	lb/hr		278	T/YR	MONTHS	8	PPM	AVERAGE
	LAWTON ENERGY COGEN		TURBINE AND										1				1
OK-0115	FACILITY PSO SOUTHWESTERN	12/12/2006	DUCT BURNER GAS-FIRED		-			GOOD COMBUSTION PRACTICES	16.38	PPMVD	@15% O2	0	+	1	0	-	+
OK-0117	POWER PLT	2/9/2007	TURBINES					COMBUSTION CONTROL	25	PPMVD	@15% O2	0	1		0		
		1	COMBINED CYCLE														
			COGENERATION	NATURAL													
OK-0129	CHOUTEAU POWER PLANT	Γ 1/23/2009	>25MW	GAS	1882	MMBTU/H	SIEMENS V84.3A	GOOD COMBUSTION	8	PPMV	1-HR AVG	51.32	PPMV	3-HR AVG	0		
			COMBUSTION TURBINE & amp;				GE 7241FA TURBINE AND DUCT BURNER.										
			HEAT RECOVERY														
OR-0041	WANAPA ENERGY CENTER	9/9/2005	STEAM GENERATOR	NATURAL	2384 1	MMBTU/H	COMBUSTION TURBINE - 1,778.5 MMBTU/HR DUCT BURNER - 605.6 MMBTU/HR	OXIDATION CATALYST.	,	PPMDV @ 15%	3 HOURS	0			2	PPM @ 15% O2	
OK-0041	WANAI A ENERGI CENTEI	X 8/8/2003		GAS	2304.1	MINIDIOII	DOCT BORNER - 003.0 MAIDTO/TR	OAIDATION CATALTST.	-	02	3 HOURS	0			1	11 M (a) 13 / 6 O2	
			Mitsubishi M501- GAC combustion														
			turbine, combined								3-HR ROLLING			3-HR ROLLING			
	TROUTDALE ENERGY		cycle configuration					Oxidation catalyst;		PPMDV AT 15%	AVERAGE ON	_	PPMDV AT 15%	AVERAGE ON			
*OR-0050	CENTER, LLC	3/5/2014	with duct burner.	natural gs	2988	MMBtwhr	or ULSD; Duct burner 499 MMBtu/hr, natural gas	Limit the time in startup or shutdown.	3.3	02	NG	9	02	ULSD	0		+
			l				Two combine cycle Turbines, each with a combustion turbine and heat recovery steam										
	MOXIE LIBERTY		Combined-cycle Turbines (2) -				generator with duct burner. Each combined-cycle process will be rated at 468 MW or less. The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the							468 MW			
PA-0278	LLC/ASYLUM POWER PL T	10/10/2012	Natural gas fired	Natural Gas	3277	MMBTU/H	heat input rating of each supplemental duct burner is equal to 387 MMBtu/hr (HHV) or less.	Oxidation Catalyst	2	PPMVD	@15% O2	15.3	lb/hr	POWERBLOCK	2	PPMVD	@15% O2
	MOXIE ENERGY LLC/PATRIOT		Combined Cycle Power Blocks 472				Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a										
*PA-0286	GENERATION PLT	1/31/2013	MW - (2)	Natural Gas	0		combustion turbine and heat recovery steam generator with duct burner. The Permittee shall select and install any of the turbine options listed below (or newer versions	CO Catalyst	2	PPMDV		109.3	T/YR	EACH UNIT	0		
							The Permittee shall select and install any of the turbine options listed below (or newer versions of these turbines if the										
							Department determines that such newer versions achieve equivalent or better emissions rates										
							and exhaust parameters) 1. General Electric 7FA (GE 7FA)										
							2. Siemens SGT6-5000F (Siemens F)										
			COMBINED CYCLE UNITS #1				3. Mitsubishi M501G (Mitsubishi G)			PPMVD@ 15%	WITH OR WITHOUT DUCT		TPY 12-MONTH	INCLUDING STARTUP AND			
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	and #2	Natural Gas	3.4	MMCF/HR	Siemens SGT6-8000H (Siemens H) The emissions listed are for the Siemens SGT6-8000H unit.	CO catalyst	2	OXYGEN	BURNER	267.32	ROLLING	STARTUP AND SHUTDOWN	0		
											12-MONTH						
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Turbine, Combined Cycle, #1 and #2	Natural Gas	3046	MMBtu/hr	Equipped with SCR and Oxidation Catalyst	CO Catalyst	211.92	TPY	ROLLING TOTAL	0	1		0		1
							GREEN POWER ONE WILL CONSIST OF TWO NOMINALLY RATED 35 MW GAS	,	1	i i							
							FIRED TURBINES AND TWO HEAT RECOVERY STEAM GENERATORS, EQUIPPED										
							WITH 312 MMBTU/HR DUCT BURNERS. THE COMBUSTION TURBINES WILL	L					1				1
							ONLY BURN PIPELINE QUALITY SWEET NATURAL GAS. THE DUCT BURNERS WILL BURN NATURAL GAS. COMPLEX GAS OR MIXTURES OF NATURAL GAS	BP AMOCO PROPOSES PROPER COMBUSTION CONTROL AS BACT					1				1
							AND COMPLEX GAS. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE	FOR CO AND VOC EMISSIONS					1				1
			COGENERATION				CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX	FROM THE TURBINES AND DUCT BURNERS. CO EMISSIONS FROM					1				1
			TRAIN 2 AND 3				WILL CONSUME APPROXIMATELY HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE	EACH TURBINE WILL NOT EXCEED					1				1
			(TURBINE AND	L			COMBUSTION TURBINES WILL BE SOLD TO THE GRID.	15 PPMVD AT 85% TO 100% OF					1				1
TX-0497	INEOS CHOCOLATE BAYOU FACILITY	8/29/2006	DUCT BURNER EMISSIONS)	NATURAL GAS	35	MW	THE EMISSIONS ARE PER TRAIN.	BASE LOAD. CO EMISSIONS FROM EACH TU	66.81	lb/hr		373.51	T/YR		0		1
								EACH TU STEAG POWER LLC REPRESENTS		T .			1				1
			WESTINGHOUSE/					GOOD COMBUSTION PRACTICES FOR THE CONTROL OF CO					1				1
			SIEMENS MODEL					EMISSIONS FROM THE					1				1
	NACOGDOCHES POWER		SW501F GAS TURBINE W/416.5					COMBUSTION TURBINES AND HRSG DUCT BURNERS. COMBINED					1				1
	STERNE GENERATING		MMBTU DUCT	NATURAL				CO WILL BE 20.2 PPMVD					1				1
TX-0502	FACILITY CITY PUBLIC SERVICE JK	6/5/2006	BURNERS	GAS	190	MW		CORRECTED TO 15% O2.	109.4	lb/hr		1080	T/YR		0		+
	SPRUCE ELECTRICE		SPRUCE POWER GENERATOR										1				1
TX-0516	GENERATING UNIT 2	12/28/2005	UNIT NO 2						4480	lb/hr		5256	T/YR		0		
	PATTILLO BRANCH		FLECTRICITY	NATURAL.			EACH TURBINE/HRSG WILL BE DESIGNED TO OUTPUT 350 MW. TURBINES BEING CONSIDERED FOR THE PROJECT ARE GE 7FA. GE 7FB. AND SIEMENS SGT6				@ 15% O2 3-HR		1				1
TX-0546	POWER PLANT	6/17/2009	GENERATION	GAS	350	MW	5000F.	OXIDATION CATALYST	2	PPMVD	ROLLING AVG	0	1		0	1	L

BLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
, LCID	I ACIETY I MENE	I I	I ROCESS TOTAL	I CEE	I I I I I I I I I I I I I I I I I I I	LAMAR POWER PARTNERS PROPOSES TO CONSTRUCT A NATURAL GAS-FIRED	DIACKHI 110.1		10.01	CONDITION	1	10	COMPTTON	Language	10.00	CONDITION
						COMBINED-CYCLE POWER BLOCK TO BE BUILT AT THE EXISTING SITE IN LAMAR COUNTY, TEXAS. THE NEW POWER BLOCK WILL BE CAPABLE OF										
						PRODUCING EITHER 620 OR 910 MEGAWATTS OF ELECTRICITY, DEPENDING										
						UPON WHICH COMBUSTION TURBINE MODEL OPTION IS CHOSEN. THE										
						PROPOSED PROJECT WOULD INCLUDE TWO COMBUSTION TURBINES (EITHER 170 MW GENERAL ELECTRIC 7FAS OR 250 MW MITSUBISHI 501GS), TWO HEAT										
						RECOVERY STEAM GENERATORS WITH DUCT BURNERS AND ONE STEAM										
	NATURAL GAS-FIRED POWER GENERATION		ELECTRICITY	NATURAL		TURBINE. THE GE7FAS WOULD BE CAPABLE OF PRODUCING 620 MW OF				@ 15% O2. 24-HF						
C-0547	FACILITY	6/22/2009	GENERATION	GAS	250	ELECTRICITY IN COMBINED CYCLE MODE, WHILE THE M501GS WOULD MW PRODUCE 910 MW IN COMBINED CYCLE MODE.	GOOD COMBUSTION PRATICES	15	PPMVD	@ 15% O2, 24-HE ROLLING AVG	0			0		
2-03-47	PACIEITI	0/22/2009	GENERATION	UAS	230		GOOD COMBOSTION FRATREES	113	TIMVD	ROLLENG AVG						
						FOUR GE PG7121(EA) COMBINE CYCLE TURBINES FIRING NATURAL GAS WILL DIRECTLY GENERATE 75 MW; EACH HAS A 165 MMBTU/HR DUCT BURNER AND										
						A HEAT RECOVERY STEAM GENERATOR. TWO HRSGA'S WILL TURN ONE 125										
	MADISON BELL ENERGY		ELECTRICITY	NATURAL		MW STEAM TURBINE AND THE OTHER TWO WILL TURN ANOTHER 125 MW				@ 15% O2, 1-HR						
-0548	CENTER	8/18/2009	GENERATION	GAS	275	MW STEAM TURBINE. THE TURBINE MAY OPERATE WITHOUT THE DUCT BURNER. The plant will be designed to generate 1,350 nominal megawatts of power. There are two	GOOD COMBUSTION PRACTICES	17.5	PPMVD	ROLLING AVG	0	+		0		+
						configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode										
(-0590	KING POWER STATION	8/5/2010	Tooking	natural gas	1350	(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B MW also includes one or two auxiliary boilers.	good combustion practices with an oxidation catalyst		PPMVD AT 15%	THREE-HOUR ROLLING	0					
1-0390	KING FOWER STATION	8/3/2010	1 urbine	naturai gas	1330	(2) GE7FA at 195 MW each,	oxidation catalyst	2	02	ROLLING 3-HR	0		ROLLING 3-HR	0	+	+
						(1) steam turbine at 200 MW.				AT 15%			AT 15%			
ζ-0600	THOMAS C. FERGUSON POWER PLANT	9/1/2011	Natural gas-fired	notural ooc	200	Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which MW provides steam for the steam turbine.	Good combustion practices and oxidation catalyst	1 4	PPMVD	OXYGEN/LOAD >= 60%	6	PPMVD	OXYGEN /LOAD < 60%	0		
2-0000		9/1/2011	turomes	naturar gas	390		Catalyse	1	TIMVD	@ 15% O2 ON A	0	TIMVD	< 0076			
C-0618	CHANNEL ENERGY CENTER LLC	10/15/2012	Combined Cycle		180	The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a MW maximum design heat input of 475 MMBtu/hr.	Good combustion	l.	PPMVD	24-HR ROLLING AVG						
V-0018	CENTERLLU	10/15/2012	Turbine	natural gas	100	MW maximum design heat input of 475 MMBtu/hr. natural gas-fired combined cycle turbine generator with a heat recovery steam generator	Good combustion	4	FFMVD	AVG	U	+		U	 	+
						equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts										
C-0619	DEER PARK ENERGY CENTER	9/26/2012	Combined Cycle Turbine	natural ass	180	and the DB will have a maximum design rate capability of 725 million British thermal units MW per hour	good combustion	4	PPMVD	@15% O2, 24-HR ROLLING AVG	0			0		
-0019	CENTER	972072012	1 droine	naturai gas	100	i i	good compusion	1	1 1 MIVID	KOLLING AVG		+		0		+
						The generating equipment consists of two natural gas-fired combustion turbines (CTs), each										
						exhausting to a fired heat recovery steam generator (HRSG) to produce steam to drive a shared steam turbine generator. The steam turbine is rated at 271 MW of electric output. Three										
						models of combustion turbines are being considered for this site: the General Electric 7FA.05, the Siemens SGT6-5000F(4), and the Siemens SGT6-5000F(5). The final selection of the										
						the Siemens SGT6-5000F(4), and the Siemens SGT6-5000F(5). The final selection of the combustion turbine will not be made until after the permit is issued. Plant output will range				3-HR ROLL AVG			3-HR ROLL AVO			
	PINECREST ENERGY		combined cycle			between 637 and 735 MW, depending on the model turbine selected. Duct Burners are rated				15% OXYGEN,			15% OXYGEN,	,		
X-0641	CENTER	11/12/2013	turbine	natural gas	700	MW at 750 MMBtu/hr each.	oxidation catalyst	2	PPMVD	80-100% LOAD	4	PPMVD	60-80% LOAD	0		
										CORRECTED TO 15% O2						
	FGE TEXAS POWER I AND					Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity 409				ROLLING 3 HR						
X-0660	FGE TEXAS POWER II	3/24/2014	Alstom Turbine	Natural Gas	230.7	MW MMBtu/hr	Oxidation catalyst	2	PPMVD	AVE	0			0		
	FREEPORT LNG					The exhaust heat from the turbine will be used to heat a heating medium which is used to				@15% O2, 3 HOUR ROLLING						
X-0678	PRETREATMENT FACILITY	Y 7/16/2014	Combustion Turbine	natural gas	87	MW regenerate rich amine from the acid gas removal system.	oxidation catalyst	4	PPMVD	AVERAGE	0			0		
	WEST PLANT AND EAST		Two Combustion							15% O2. 24HR						
TX-0687	PLANT CENTRAL HEAT AND POWER	10/13/2014	Turbine-Generators	Natural Gas	13	MW Combined Cycle	Good combustion practices	50	PPM	ROLLING AVG.	0			0		
							·									1
ΓX-0689	CEDAR BAYOU ELECTRIC GENERATION STATION	8/29/2014	Combined cycle natural gas turbines	Natural Gas	225	MW	oc	,	PPM	ROLLING 12 MONTHS	4	DDM	1HR AVG.	0		
			(4) cogeneration	Ivaturai Gas	1223	ain ain	DLN and Closed Loop Emissions	1			7	TTW	HIKAVO.			+
X-0698	BAYPORT COMPLEX	9/5/2013	turbines	natural gas	90	MW (4) GE 7EA turbines providing power and process steam	Controls (CLEC)	15	PPMVD	@15% O2	0			0		
						The specific equipment includes two combustion turbines (CTs) connected to electric										
						generators, producing between 183 and 232 MW of electricity, depending on ambient temperature and the selected CT. The two HRSGs use duct burners rated at 750 MMBtu/hr										
						each to supplement the heat energy from the CTs. The steam from the two HRSGs is combined										
						and routed to a single steam turbine driving a third electric generator with an electricity output										
						capacity of 271 MW. Depending on the selected CT, total plant output at 59ŰF is between 637 MW and 735 MW.										
						05 / MW and /55 MW.										
						The applicant is considering three models of CT; one model will be selected and the permit				@15% O2, 3-HR			@15% O2, 3-HR			
ΓX-0708	LA PALOMA ENERGY CENTER	2/7/2013	(2) combined cycle	notural ooc	650	revised to reflect the selection before construction begins. The three CT models are: (1) MW General Electric 7FA.04; (2) Siemens SGT6-5000F(4); or (3) Siemens SGT6-5000F(5).	avidation autobut	,	PPMVD	ROLLING, 80-	4	PPMVD	ROLLING, 60- 80% LOAD	0		
A-0/08		2/1/2015	Natural gas-fired	natural gas	0.50	Series Electric /FA.04; (2) Siemens SG10-3000F(4); or (3) Siemens SG10-3000F(5).	oxidation catalyst	-	11 MVD	100% LOAD	1	1 CM VI	60% LUAD	0	_	
	SAND HILL ENERGY		combined cycle	L	1			I.			L			L		
TX-0709	CENTER	9/13/2013	turbines	Natural Gas	173.9	MW General Electric 7FA.04 at 197 MW nominal ouput. The duct burners will be capable of a	OC	12	PPM	1HR AVG.	0	+	+	0		+
						maximum natural gas firing rate of up to 483 MMBtu/hr (HHV). The duct burners may be										
						fired additional hours; however, total annual firing will not exceed the equivalent of 4,375 hours at maximum capacity per duct burner. The available capacity of the existing steam				@15% O2 3-HR						
	VICTORIA POWER		combined cycle			turbine will be increased from 125 MW in its existing 1x1x1 configuration to approximately				ROLLING						
TX-0710	STATION	12/1/2014	turbine	natural gas	197	MW 185 MW in the 2x2x1 configuration. The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion	oxidation catalyst	4	PPMVD	AVERAGE	0	1		0		1
						The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion turbine nominally rated at 497 megawatts (MW) equipped with a HRSG and DB with a				@15% O2, 24-HR						
	TRINIDAD GENERATING		combined cycle	1		maximum design capacity of 402 million British thermal units per hour (MMBtu/hr). The				ROLLING		1				
TX-0712	FACILITY	11/20/2014	turbine	natural gas	497	MW gross nominal output of the CTG with HRSG and DB is 530 MW.	oxidation catalyst	4	PPMVD	AVERAGE	0		-	0		
				1		Each CTG is site-rated at 274 MW gross electric output at 62°F ambient temperature. At						1				
				1		this condition, two HRSGs with full duct burner firing produce enough steam to generate an				C150 C2		1				
	TENASKA BROWNSVILLE		(2) combined cycle	1		additional 336 MW, for a total of 884 MW gross, or with about 5% losses, about 840 MW net electric output. Under summertime conditions, the net output is approximately 800 MW with				@15% O2, 24-HR ROLLING		1				
X-0713	GENERATING STATION	4/29/2014	turbines	natural gas	274	MW the 2x1 CCGT configuration or about 400 MW with the 1x1 CCGT configuration. The ass turbines will be one of three ontions:	oxidation catalyst	2	PPMVD	AVERAGE	0			0		
						The gas turbines will be one of three options:						1				
				1		(1) Two Siemens Model F5 (SF5) CTGs each rated at nominal capability of 225 megawatts										
				1		(MW). Each CTG will have a duct fired HRSG with a maximum heat input of 688 million										
						British thermal units per hour (MMBtw/hr).										
				1		(2) Two General Electric Model 7FA (GE7FA) CTGs each rated at nominal capability of 215						1				
						MW. Each CTG will have a duct fired HRSG with a maximum heat input of 523 MMBtu/hr.										
				1		(3) Two Mitsubishi Heavy Industry G Frame (MHI501G) CTGs each rated at a nominal						1	@15% O2,			
	S R BERTRON ELECTRIC		(2) combined cycle			electric output of 263 MW. Each CTG will have a duct fired HRSG with a maximum heat				@15% O2, ONE			ROLLING 12-			
TX-0714	GENERATING STATION	12/19/2014	Iturbines	natural gas	1240	MW input of 686 MMBtu/hr.	oxidation catalyst	14	PPMVD	HOUR	12	PPMVD	MONTH	10	1	1

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*TX-0727	CEDAR BAYOU ELECTRIC GENERATING STATION	3/31/2015	Combined cycle turbines Combined-cycle gas	Natural Gas	187	MW/turbine		Oxidation catalysts	15	PPMVD	15%O2	0			0		
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/2015	turbine electric generating facility	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	SCR and oxidation catalyst		PPMVD @ 15%	3-HR AVERAGE	0					
12-0/30	CENTER	4/1/2015	Combined Cycle Turbines (>25	naturar gas	1100	NI W	Two power configuration options authorized	SCR and Oxidation Catalyst		02	5-IIK AVERAGE	0					
*TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	6/18/2015	MW) – natural gas	natural gas	210	MW	Siemens â€" 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner GE å€" 210 MW + 349.2 MMBtu/hr duct burner	Oxidation catalyst	2	PPM	ROLLING 24-HR AVERAGE	0			0		
			Combined Cycle				Two power configuration options authorized	Í									
*TX-0767	LON C. HILL POWER STATION	10/2/2015	Turbines (>25 MW)	natural gas	195	MW	Siemens – 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner GE – 195 MW + 670 MMBtu/hr duct burner	Oxidation Catalyst	2	PPM	ROLLING 24-HR AVERAGE	0			0		
			COMBINED								ONE HR AVERAGE						
	WARREN COUNTY POWER		CYCLE TURBINE & amp; DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Oxidation catalyst and good combustion			(WITH DUCT BURNER						
VA-0315	PLANT - DOMINION	12/17/2010	BURNER, 3 Large combustion	Natural Gas	2996	MMBTU/H	generator, Model M501 GAC). Throughput and Units above are for the GEF7.05.	practices.	2.4	PPMVD	FIRING)				0		
	GREEN ENERGY PARTNERS/ STONEWALL,		turbines (>25MW) CCT1				Siemens SGTF-5000F5:										
*VA-0322	BRUNSWICK COUNTY	4/30/2013	and CCT2 COMBUSTION TURBINE	Natural Gas	2.23	MMBTU/hr	Throughput: 2.260 MMBTU/hr Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners	Catalytic Oxidizer	0		3 H AVG/WITHOUT	0			0		
*VA-0321	POWER STATION	3/12/2013	GENERATORS, (3) GE 7FA	Natural Gas	3442	MMBTU/H	Inree (3) Mitsubish M301 GAC combustion turbine generators with HRSG duct burners (natural gas-fired).	Oxidation catalyst; good combustion practices.	1.5	PPMVD	DUCT BURNING	0			0		
			COMBUSTION TURBINE & amp;														
	BP CHERRY POINT		HEAT RECOVERY	NATURAL			THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER	LEAN PRE-MIX CT BURNER &									UNITS NOT AVAILABLE
WA-0328	COGENERATION PROJECT	1/11/2005	GENERATOR	GAS	174	MW	WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR. This entry is for both of two identical units at the facility.	OXIDATION CATALYST	2	PPMDV	3-HR @ 15%O2	0			0	PPM@ 15 % 02	*SEE NOTES
	MOUNDSVILLE COMBINED		Combined Cycle				Nominal 197 mW General Electric Frame 7FA.04 Turbine w/ Duct Burner - throughput	Oxidation Catalyst + Combustion									
*WV-0025	CYCLE POWER PLANT	11/21/2014	Turbine/Duct Burner	Natural Gas	2419.61	mmBtu/Hr	denotes aggregate heat input of turbine and duct burner (HHV).	Controls	9.2	lb/hr		0		30-DAY	2	PPM	@ 15% O2
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	8/28/2012	Combined Cycle Turbine (EP01)	Natural Gas	40	MW		Oxidation Catalyst	4	PPMV AT 15% O2	1-HOUR	3.7	lb/hr	ROLLING AVERAGE	32	T/YR	
	Astoria Energy LLC		Combustion Turbine	Natural Gas	1000	MW		Oxidation Catalyst	1.5	ppmvd @ 15% O2	1-hour average; Duct Burners On	7.7	lb/hr	1-hr average; Duct Burners On			
	Catoctin Power LLC		Combustion Turbine	Natural Gas	170	MW		DLN combustion design; oxidation catalyst	3	ppmvd @ 15% O2	3 hr average; Duct Burners On						
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas	346	MW		Oxidation Catalyst	8	lb/hr	1-hr average; Duct Burners On	0.0045	lb/MMBtu	1-hr average; Duct Burners On			
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas	346	MW		SCR/Low NOx Burners	2	ppmvd @ 15% O2	1-hr average; Duct Burners On	0.025	lb/MW-hr	1-hr average; Duct Burners On			
	Kalama Energy Center		Combustion Turbine	Natural Gas	2247	MMBtu/hr		Oxidation Catalyst	2	ppmvd @ 15% O2	1-hr average	11.3	lb/hr	1-hr average			
	Lawrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW		Oxidation Catalyst and GCP	2	ppmvd @ 15% O2	1-hr average						
	Lawrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW		Oxidation Catalyst and GCP	10	ppmvd @ 15% O2	1-hr average						
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	MMBtu/hr			5	ppmvd @ 15% O2		8	lb/hr				
	PacifiCorp Energy		Block 1 CT	Natural Gas					3	ppmvd @ 15% O2	3-hour	14.1	lb/hr				
	PacifiCorp Energy		Block 2 CT	Natural Gas	629	MW			3	ppmvd @ 15% O2	3-hour	14.1	lb/hr				
	Pioneer Valley Russell City Energy Company,		Combustion Turbine	Natural Gas	387	MW			2	ppmvd @ 15% O2	1-hr average						
	LLC Sevier Power Company Power		Combustion Turbine	Natural Gas	2,038.60	MMBtu/hr			2	ppmvd @ 15% O2	1-hr average						
	Plant CPV Valley Energy Center		Combustion Turbine	Natural Gas	580	MW			3	ppmvd @ 15% O2	3-hr average						
	Wawayanda, NY CPV Valley Energy Center			Natural Gas	630	MW			2	ppmvd @ 15% O2	1-hr average						
	Wawayanda, NY Woodbridge Energy Center			Natural Gas	630	MW			3.6	ppmvd @ 15% O2	1-hr average						
	(CPV Shore, LLC) Woodbridge Energy Center			Natural Gas	2,807	MMBtu/hr			2	ppmvd @ 15% O2							
	(CPV Shore, LLC)			Natural Gas	2,307	MMBtu/hr			2	ppmvd @ 15% O2							
			COMBINED HEAT AND POWER														
	PA STATE UNIV/UNIV PARK CAMPUS		DUAL-FIRED COMBUSTION TURBINE		86 29	MMBtu/hr				10.150/.00							
	Hummel Station LLC		Combustion Turbine	Natural Gas Natural Gas	2,254.00	MMBtu/hr			11.22	ppmvd @ 15% O2		10.6					
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW			2	ppmvd @ 15% O2	1-hr average	10.6	ionr				
	Effingham County Power		Combustion Turbine			MW			2	ppmvd @ 15% O2							
	Gibson County Generation, LLC		Combustion Turbine		417	MW			3	ppmvd @ 15% O3		0.0056	lb/MMBtu				
	Tenaska Partners LLC		Combustion Turbine		3147	MMBtu/hr			2	ppm @15% O2		15.9	lb/hr				
	UGI Development Co/ Hunlock Creek			Natural Gas	471.2	MMBtu/hr			4	ppm @15% O2	>32 °F						
	UGI Development Co/ Hunlock Creek			Natural Gas	471.2	MMBtu/hr			10	ppm @15% O2	<32 °F						
	Huntington Beach Energy Project			Natural Gas	939	MW (net)			2	ppm @15% O2	1-hr rolling						
	Hess Newark Energy Center		Combustion Turbine		2266	MMBtu/hr			2	ppm @15% O2		0.0045	lb/MMBtu				
	York Energy Center Block 1 Shell Chemical				1574	MMBtu/hr			6	ppmvd	3 hour average, rolling by 1-hour						
	Appalachia/Petrochemicals																
	Complex	6/18/2015	1		[664	MMBtu/hr	combustion turbines with duct burners	l .	12	ppmvd @ 15% O2	1-hour average	lb/hr	1	1	1		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT PROCESS NOTES	EMISSION LIMIT 1		EMISSION LIMIT 2	UNIT	STANDARAD EMISSION LIMIT	AVG T	TIME DITION
	Liberty Electric Power, LLC				1954	MMBtu/hr Without DB	9	ppmvd @ 15% O2					
	Liberty Electric Power, LLC				1954	MMBtu/hr With DB	20	ppmvd @ 15% O2					

				1		1				1	1						
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	KILLINGLY ENERGY		Natural Gas w/o	1					1	PPMVD@15%						1	1
CT-0161	OKEECHOBEE CLEAN	6/30/2017	Duct Firing	Natural Gas	2969	MMBtu/hr	Throughput is for turbine only	Oxidation Catalyst	0.9	02	1 HOUR BLOCK	0		3-HR AVERAGE	-)	
FL-0356	ENERGY CENTER	3/9/2016	Combined-cycle electric generating	Natural gas	3096	MMBtu/hr per turbine	3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas.	Clean burners that prevent CO formation	4:	PPMVD@15% O2	3-HR AVERAGE, NATURAL GAS	10	PPMVD@15% O	2 ULSD	·	0	
12.0000	DANIA BEACH ENERGY	3/3/2010	2-on-1 combined	Tructurur gus	3070	Ministra in per turone	unit generating capacity is approximately 1,000 strs. I intainly facted with factoring ass.	Clean burning fuel with lean pre-mix	7	1134715@1374-02	TOTAL CALL		TIM TDEED TO	FOR LOADS <		4	1
*FL-0363	CENTER	12/4/2017	cycle unit (GE 7HA) Natural gas	4000	MMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	turbines	4.3	PPMVD@15% O2	AT LOADS > 90%	7.2	PPMVD@15% O	2 90%		D.	
MI-0423	INDECK NILES, LLC	1/4/2017	FGCTGHRSG (2 Combined Cycle	Natural gas	9222	MMBTU/H	There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the	Oxidation catalyst technology and good combustion practices.	24.5	LB/H	24-H ROLLING AVG	2527	LB/H	OPERATING HR DURING	•	0	
WII-0423	HOLLAND BOARD OF		FGCTGHRSG (2	Naturai gas	8322	MMB1U/H	Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat	Oxidation catalyst technology and good	24.1	LB/II	EACH EU; 24-H			EACH EU; 24-H		+	+
MI-0424	PUBLIC WORKS - EAST 5TH	12/5/2016	Combined cycle	Natural gas	554	MMBTU/H, each	recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG).	combustion practices.	4	PPM	ROLL AVG	5.31	LB/H	ROLL AVG		ð	
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH	12/5/2016	FGCTGHRSG Startup/Shutdown (2	Notes I am		MMBTU/H; EACH	Two combined cycle natural gas-fired combustion turbine generators (CTGs) with heat	Oxidation catalyst technology and good	247	LB/H	OPERATING HOUR DURING	551.3	I Dat	OPERATING HOUR DURING		0	
W11-0424	PUBLIC WORKS - EAST 31H	12/3/2010	EUCCT (Combined	Naturai gas	334	MMB1U/II; EACII	recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG). A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The	combustion practices. Oxidation catalyst technology and good	247.3	LB/II	24-H	331.3	LB/II	24-H		+	+
MI-0427	FILER CITY STATION	11/17/2017	cycle CTG with	Natural gas	1934.7	MMBTU/H	turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG).	combustion practices.	4	PPM	ROLL.AVG.,	17.4	LB/H	ROLL.AVG.,		0	
MI-0427	FILER CITY STATION	11/17/2017	EUCCT		1024	MMBTU/H	This emission unit is being entered as a separate process to account for the emission limits	Oxidation catalyst technology and good	1.500	POUNDS	POUNDS PER EVENT						
	NEW COVERT		(Startup/Shutdown) FG-TURB/DB1-3	Natural gas			associated with startup/shutdown events, which could not be included within the previous Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG)	combustion practices. Oxidation catalyst technology and good	1.00		EACH CT/HRSG	0			· ·	4	+
*MI-0432	GENERATING FACILITY	7/30/2018	Startup/Shutdown	Natural gas	1230	MW	trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped with dry low NOx	combustion practices.	1164	LB/H	TRAIN;	0				ð	
	BELLE RIVER COMBINED		FGCTGHRSG	l			Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	Oxidation catalyst technology and good			EACH UNIT; 24-			EACH UNIT; 24-			
°MI-0435	CYCLE POWER PLANT BELLE RIVER COMBINED	7/16/2018	(EUCTGHRSG1 FGCTGHRSG	Natural gas	- 0	-	recovery steam generator (CTGHRSG). This section is the startup and shutdown emission limits for FGCTGHRSG.	combustion practices. Oxidation catalyst technology and good	0.0043	LB/MMBTU	H ROLL AVG; EACH UNIT:	17.59	LB/H	H ROLL AVG;		-	+
*MI-0435	CYCLE POWER PLANT	7/16/2018	(EUCTGHRSG1	Natural gas	0			combustion practices.	791.5	LB/H	OPERATING	0				0	
	MIDDLESEX ENERGY		Combined Cycle				NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF	OXIDATION CATALYST AND GOOD			3 H ROLLING AV			AV OF THREE			
NJ-0085	CENTER, LLC	7/19/2016	Combustion Turbine Combined Cycle	Natural Gas	8040	H/YR	ONE GENERAL ELECTRIC (GE) 7HA.02 CCCT NOMINALLY RATED AT 380 MW CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	COMBUSTION PRACTICES	1 2	PPMVD@15% O2	BASED ON ONE	15.3	LB/H	ONE H STACK ANNUAL	-)	
TX-0788	NECHES STATION	3/24/2016	& Cogeneration	natural oas	231	MW	(GE) Simple guela energians limited to 2.500 be/or	OXIDATION CATALYST		PPM	HOURLY	2	PPM	AVERAGE	1	0	
	DECORDOVA STEAM		Combined Cycle				2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW										
TX-0789	ELECTRIC STATION PORT ARTHUR LNG	3/8/2016	& Cogeneration	natural gas	231	MW	(GE). Simple cycle operations limited to 2,500 hr/yr.	OXIDATION CATALYST	+ 4	PPM	ROLLING 3-HR	0		+	1	J	
TX-0790	EXPORT TERMINAL	2/17/2016	Refrigeration Compression	natural gas	10	M TONNES/YR	Four GE Frame 7E gas turbines for refrigeration and compression at the site	Dry low NOx burners and good combustion practices	2.	PPM	AVERAGE	0			1 .	0	
	PORT ARTHUR LNG		Simple Cycle	mittin gus	-						ROLLING 3-HR	-			1	4	+
TX-0790	EXPORT TERMINAL	2/17/2016	Electrical	natural gas NATURAL	34	MW	Nine GE PGT25+G4 gas turbines for electrical generation at the site at 34 MW/turbine	OXIDATION CATALYST	9	PPM	AVERAGE	0)	
*TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle Turbine	GAS	2625	MMBTU/HR/UNIT	Two Mitsubishi M501GAC turbines (without fast start)	OXIDATION CATALYST		PPMVD	15% O2 3 HOUR AVERAGE				l .	0	
17-0034	MONTGOMERY COUNTY		COMBINED	NATURAL	2033	MINIBICATIOCINII		minimizing duration of startup / shutdown	n		AVERAGE	,			·	4	
*TX-0834	POWER STATIOIN	3/30/2018		GAS	0		9 HOURS STARTUP, 1 HOUR SHUTDOWN	events, engaging the pollution control	8000	LB/H		0				ð	
			COMBUSTION														
			TURBINE #2 (NORMAL								@15% O2, 1-HR						
	VICTORVILLE 2 HYBRID		OPERATION, NO	NATURAL							AVG (NO DUCT			1-HR AVG (NO			
CA-1191	POWER PROJECT	3/11/2010	DUCT BURNING)	GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	OXIDATION CATALYST SYSTEM	1	PPMVD	BURNING)	7.65	lb/hr	DUCT BURNING	0	ð	
			COMBUSTION TURBINE #1														
			(NORMAL														
			OPERATION, NO	NATURAL							@15% O2, 1-HR						
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	DUCT BURNING)	GAS	180	MW		OXIDATION CATALYST SYSTEM	1.5	PPMVD	AVG	6.27	lb/hr	1-HR AVG		D.	
			COMBUSTION TURBINE														
			GENERATOR, 2														
			units (Normal	NATURAL			Each CTG system will generate 166 MW under design ambient conditions with steam power				@15% O2, 1-HR						
CA-1195	ELK HILLS POWER LLC	1/12/2006	Operation)	GAS	166	MW	augmentation from the duct burners, and 153 MW without steam augmentation.	SCR OR SCONOX	4	PPMVD	AVG	12.5	lb/hr	1-HR AVG		ð	
			COMBUSTION TURBINE														
			GENERATORS														
	HIGH DESERT POWER		(NORMAL	NATURAL			THREE (3) COMBUSTION TURBINE GENERATORS AT 190 MW EACH AND				@15% O2, 24-HR						
CA-1209	PROJECT	3/11/2010	OPERATION)	GAS	190	MW	EQUIPPED WITH A 160 MMBTU/HR DUCT BURNER AND HRSG	OXIDATION CATALYST SYSTEM	4	PPMVD	AVG	17.53	lb/hr	24-HR AVG		J	
			COMBUSTION														
	COLUSA GENERATING		(NORMAL	NATURAL			TWO (2) NATURAL GAS FIRED TURBINES AT 172 MW EACH. BOTH TURBINES				@15% O2. 3-HR			3-HR ROLLING			
CA-1211	STATION	3/11/2011	OPERATION)	GAS	172	MW	EQUIPPED WITH A 688 MMBTU/HR DUCT BURNER AND HRSG.	CATALYTIC OXIDATION SYSTEM		PPMVD	ROLLING AVG	17.9	lb/hr	AVG		D	
			COMBUSTION	1			TWO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATED AT 154 MEGAWATT (MW. GROSS) EACH. TWO HEAT RECOVERY STEAM				1					1	
			TURBINES	1			GENERATORS (HRSG), ONE STEAM TURBINE GENERATOR (STG) RATED AT 267				@15% O2, 1-HR			@15% O2, 1-HR		1	
	PALMDALE HYBRID		(NORMAL	NATURAL	1	1	MW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH		1		AVG (NO DUCT	1		AVG (W/ DUCT			
CA-1212	POWER PROJECT	10/18/2011	OPERATION)	GAS	154	MW	ASSOCIATED HEAT-TRANSFER EQUIPMENT	OXIDATION CATALYST SYSTEM	1.5	PPMVD	BURNING)	2	PPMVD	BURNING)	1	3	
			NATURAL-GAS FIRED.	1				USE GOOD COMBUSTION CONTROL									
	ROCKY MOUNTAIN		COMBINED-	NATURAL			ONE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING	PRACTICES AND CATALISTIC	1								
CO-0056	ENERGY CENTER, LLC	5/2/2006	CYCLE TURBINE	GAS	300	MW	FACILITY.	OXIDATION.	1 :	PPM @ 15% O2		0.044	LB/MMBTU	MONTHLY AV		3 PPM @ 15 O2	
	PUTPLO LIBRORY		Four combined				The off I Marchan Process of the State of th	la		PRINCE 12 12				20 D 11			
°CO-0073	PUEBLO AIRPORT GENERATING STATION	7/22/2010	cycle combution turbines	natural gas	272	mmbtu/hr	Three GE, LMS6000 PF, natural gas-fired, combined cycle CTG, rated at 373 MMBtu per hour each, based on HHV and one (1) HRSG each with no Duct Burners	Good combustion control and catalytic oxidation	1 .	PPMVD AT 15%	1-HR AVE	2 2	lb/hr	30-DAY ROLLING AVE	1 .	0	
20-00/3	OLDERATING STATION	//22/2010		naturar gas	3/3	Drwiii	non each, cased on three and one (1) these each with no Duct Durners	- Varianti (MI	T '		HKAYE	3.3	10/18	MOLLING AVE	1	+	+
			SIEMENS SGT6-	1							1					1	
			5000F COMBUSTION	1	1	1	THROLIGHPLIT IS FOR TURBINE ONLY WHEN FIRING NATURAL GAS		1		1	1					
			TURBINE #1 AND	1			THROUGHFUT IS FOR TURBINE ONLY WHEN FIRING NATURAL GAS										
			#2 (NATURAL	1	1	1	TURBINE: 2136 MMBTU/HR (2.095 MMCF/HR)		1		1	1					
			GAS FIRED) WITH				DUCT BURNER: 445 MMBTU/HR (0.436 MMCF/HR)				1					1	
	KLEEN ENERGY SYSTEMS,		445 MMBTU/HR NATURAL GAS	NATURAL			EMISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS,				W/OUT DUCT			W/DUCT		PPMVD @ 15 %	1 HR-BLOCK (W/OUT DUCT
CT-0151	LLC	2/25/2008	DUCT BURNER	GAS	,,,	MMCF/H	EMISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS, NOT COMBINED	CO CATLYST	4.5	lb/hr	BURNER	0.4	lb/hr	W/DUCT BURNER	0.0	9 02 FFM V D @ 15 %	BURNER)
C1-0131	LEC	2/23/2008	DOCT BURNER	- C. LO		macF/H	500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr	CO CALLEISI	***	The sale	DURITER	0.4	and and		0.3	1	DORNER
	NRG ENERGY CENTER			1			Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified				1 HOUR			1 HOUR			
*DE-0023	DOVER	10/31/2012	UNIT 2- KD1	Natural Gas	655	MMBTU/H	CEMS and COMS.	Oxidation Catalyst System	19.54	lb/hr	AVERAGE	0.032	LB/MMBTU	AVERAGE	1	J	+
FL-0265	HINES POWER BLOCK 4	6/8/2005	COMBINED CYCLE TURBINE	NATURAL GAS	520	MW		GOOD COMBUSTION	,	PPM	NATURAL GAS	12	PPM	OII.	1 .	8 PPM @ 15% O2	
0200		3/8/2002	COMBINED	1	330	F			1 '	1	JOILL GAS	12			1		1
			CYCLE	1	1	1			1		1	1					
	PROGRESS BARTOW		COMBUSTION TURBINE	NATURAL	1	1	1876 MMBTU/HR WHEN FIRING DISTILLATE FUEL OIL. THE SYSTEM NOMINAL CAPACITY 1280 MW. EACH UNIT NOMINAL CAPACITY		1		24-HR BLOCK	1					
FL-0285	PROGRESS BARTOW POWER PLANT	1/26/2003	SYSTEM (4-ON-1)	GAS	1072	MMBTU/H	THE SYSTEM NOMINAL CAPACITY 1280 MW. EACH UNIT NOMINAL CAPACITY 215 MW (ISO) WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATOR.	GOOD COMBUSTION		PPMVD	AVERAGE CEMS					0	
	I CHEKTEMINI	1/20/2007	10.01EM (4-ON-1)	In to	19/2	para ton	para min (100) mini doct-tiked fieat kecovekt steam generator.	GOOD COMBOSTION		11.1.01.4.12	DATE OF CENTS		1	1	1 '	4	

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAM		THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							2117 MMBTU/HR FUEL OIL.										
							EACH COMBINED CYCLE UNIT SYSTEM (TWO ''3-ON-1'') WILL CONSIST OF: THREE NOMINAL 250 MEGAWATT MODEL 501G GAS										
							TURBINE-ELECTRICAL GENERATOR SETS WITH EVAPORATIVE INLET COOLING										
			COMBINED				SYSTEMS; THREE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM GENERATORS (HRSGÂ;S) WITH SCR REACTORS; ONE NOMINAL 428										
			CYCLE				MMBTU/HOUR (LHV) GAS-FIRED DUCT BURNER LOCATED WITHIN EACH OF THE										
			COMBUSTION				THREE HRSG¿S; THREE 149 FEET EXHAUST STACKS; ONE 26 CELL										
FL-0286	FPL WEST COUNTY ENERGY CENTER	1/10/200	GAS TURBINES 7 6 UNITS	- NATURAL GAS	233	3 MMBTU/H	MECHANICAL DRAFT COOLING TOWER; AND A COMMON NOMINAL 500 MW— STEAM-ELECTRICAL GENERATOR. FUELHEAT INPUT RAFE (LHV): OIL2,117 MMBTU/H		1	8 PPMVD @15%O2	24-HR	l .					
							FUELHEAT INPUT RATE (LHV): OIL2,117 MMBTU/H COMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE NOMINAL 250 MW										
			THREE NOMINA	AL.			COMBUSTION TURBINE-ELECTRICAL GENERATORS (CTG) WITH EVAPORATIVE										
			250 MW CTG				INLET COOLING SYSTEMS; THREE SUPPLEMENTARY-FIRED HEAT RECOVERY										
	FPL WEST COUNTY		(EACH) WITH SUPPLEMENTA	R NATURAL			STEAM GENERATORS (HRSG) WITH SELECTIVE CATALYTIC REDUCTION (SCR) REACTORS AND A COMMON NOMINAL 500 MW STEAM-ELECTRICAL										
FL-0303	ENERGY CENTER UNIT 3	7/30/200	8 Y-FIRED HRSG 300 MW	GAS	233	3 MMBTU/H	GENERATOR.	GOOD COMBUSTION	_	6 PPMVD (GAS)	12-MONTH		PPMVD (OIL)	24-HOUR	0		
			COMBINED														
	CANE ISLAND POWER		CYCLE COMBUSTION	NATURAL													
FL-0304	PARK	9/8/200	8 TURBINE	GAS	186	0 MMBTU/H		GOOD COMBUSTION PRACTICES		6 PPMVD	12-MONTH		PPMVD	24-HR	0		
			COMBINED				6 TURBINES, 254 MW EACH (NOT INCLUDING STEAM RECOVERY), LIMITS ARE										
	PLANT MCDONOUGH		COMBUSTION	NATURAL			FOR EACH TURBINE (MITSUBISHI MODEL M501G). BACKUP FUEL FOR TWO			PPMVD @ 15%							
GA-0127	COMBINED CYCLE	1/7/200	8 TURBINE COMBINED	GAS	25-	4 MW	TURBINES IS ULTRA-LOW SULFUR FUEL OIL	OXIDATION CATALYST	1.	8 O2	3-HOUR		0		0		
		1	CYCLE COMBUSTION								3 HOUR			3 HOUR			12
		1	TURBINE -				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.				AVERAGE WO/C			3 HOUR AVERAGE			CONSECUTVE
			ELECTRIC				These limits are for each of the 4 turbines individually, while operating with the duct burners	GOOD COMBUSTION PRACTICES			DUCT FIRING/CONDITI			W/DUCT FIRING/CONDITI			MONTH
GA-0138	LIVE OAKS POWER PLANT	4/8/201	GENERATING 0 PLANT	NATURAL GAS	60	0 MW	on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct burners.	AND CATALYTIC OXIDATION		2 PPMVD @15%02	O FIRING/CONDITI	3.3	PPM@15%02	ON 2	208	T/YR	AVERAGE/CON ITION 2.
	MARSHALLTOWN		Combustion turbin				and identify the second				30-DAY ROLLING AVG.			12-MONTH			
*IA-0107	GENERATING STATION	4/14/201	4 #1 - combined cy		225	8 mmBtu/hr	two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258 mmBtu/hr generating approx. 300 MW each.	catalytic oxidizer		2 PPM	@15% O2 30-DAY	552	TON/YR	ROLLING TOTAL 12-MONTH	0		
	MARSHALLTOWN		Combustion turbing								30-DAY ROLLING			12-MONTH ROLLING			
*IA-0107	GENERATING STATION	4/14/201	4 #2 -combined cyc	le natural gas	225	8 mmBtu/hr		CO catalyst		2 PPM	AVERAGE HOURLY AVG	552.	TON/YR	TOTAL	0		
											HOURLY AVG EXCEPT						
			Electric Generation				Two combined cycle combustion turbines followed by HRSGs with capability for supplementa	ı		PPMVD @ 15%	DURING SSM OF						
*IL-0112	NELSON ENERGY CENTER	12/28/201	0 Facility	Natural Gas	22	0 MW each	fuel firing in HRSG for each combustion turbine using duct burners. EACH TURBINE IS EOUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS			5 02	TUNING	-)		0		
			FOUR (4)				FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR										
			NATURAL GAS COMBINED				IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC										
			CYCLE				EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/201	COMBUSTION 2 TURBINES	NATURAL GAS	230	0 MMBTU/H	EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	OXIDATION CATALYST		2 PPMVD	3 HOURS	l .			0		
			GAS TURBINES	-				CO OXIDATION CATALYST AND		7 lb/hr	HOURLY			ANNUAL			ANNUAL
LA-0192	CRESCENT CITY POWER	6/6/200	5 187 MW (2) TWO COMBINE	D	200	6 MMBTU/H		GOOD COMBUSTION PRACTICES	17:	7 lb/hr	MAXIMUM	77.	T/YR	MAXIMUM	4	PPM @ 15%O2	AVERAGE
	ARSENAL HILL POWER	3/20/200	CYCLE GAS	NATURAL		0 MMBTU/H	CTG-1 TURBINE/DUCT BURNER (EQT012)	PROPER OPER ATRIC PRACTICES	143.3						1.0	PD 41 PD C 150/ CO	ANNUAL
LA-0224	PLANT	3/20/200	COMBINED	GAS	2110	U MMB1U/H	CTG-2 TURBINE/DUCT BURNER(EQT013)	PROPER OPERATING PRACTICES	143.3	I Ib/hr	MAX		,		10	PPMVD@15%O2	AVERAGE
	NINEMILE POINT		CYCLE TURBIN GENERATORS	E			TURBINES ALSO PERMITTED TO BURN NO. 2 FUEL OIL AND ULTRA LOW SULFUE DIESEL.	R.									
	ELECTRIC GENERATING		(UNITS 6A &am	; NATURAL				OXIDATION CATALYST AND GOOD		PPMVD @ 15%	HOURLY					PPMVD @ 15%	HOURLY
LA-0254	PLANT	8/16/201	1 6B) Combined Cycle	GAS	714	6 MMBTU/H	FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR.	COMBUSTION PRACTICES		3 O2	AVERAGE		0		3	O2	AVERAGE
			Refrigeration														
LA-0257	SABINE PASS LNG TERMINAL	12/6/201	Compressor 1 Turbines (8)	natural gas	28	6 MMBTU/H	GE LM2500+G4	Good combustion practices and fueled by natural gas	43	6 lb/hr	HOURLY MAXIMUM	l .			58.4	PPMV	AT 15% O2
							This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator (HRSG).										
			Combined cycle combustion turbin	e			(HRSG).				24-HR ROLLING			24-HR ROLLING			
*MI-0402	SUMPTER POWER PLANT	11/17/201	l w/ HRSG	Natural gas	130	0 MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG		0.04	8 LB/MMBTU	AVERAGE	53.	5 lb/hr	AVERAGE	0		
		1															
			Natural gas fueled combined cycle	1			Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam										
	L		combustion turbin	e			generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				EACH CTG: 24-H			FACH CTG: 24-H			
*MI-0405	MIDLAND COGENERATION VENTURE	4/23/201	generators (CTG) with HRSG	Natural gas	223	7 MMBTU/H	to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a selective catalytic reduction (SCR) system.	Good combustion practices	1 .	9 PPM	ROLLING AVG.	43	lb/hr	ROLLING AVG.			
							selective catalytic reduction (SCR) system. Natural gas fired CTG with DB for HRSG; 4 total.	·									
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
		1					Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG				24-H ROLL AVG						
		1	FGCCA or FGCC				trains driving one steam turbine electrical generator: Two 2X1 Blocks. Each CTG will be				DET. EACH H						
*MI-0410	THETFORD GENERATING STATION	7/25/201	4 nat. gas fired C' w/ DB for HRSG		250	MMBTU/H heat input, 7 each CTG	rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up to 1,400 MW.	Efficient combustion control plus catalytic oxidation system.		4 PPMV	TURBINE OPERAT	315	lb/br	4-H ROLL AVG			
		7/23/201	2 COMBINED-	maturar gas	238	, caca CTG	100 111.	Cumiyue Oxidation System	T		O. ERAI	313	e accession and a second	- II KOLL AVG	T		
	HIGH BRIDGE		CYCLE COMBUSTION	NATURAL							TURBINE W/O			WITH DUCT-			
MN-0060	GENERATING PLANT NORTHERN STATES	8/12/200	5 TURBINES	GAS ONLY	330	0 MEGAWATTS	EMISSIONS FOR EACH TURBINE.	GOOD COMBUSTION PRACTICES	1	0 PPM @ 15% O2		1	PPM @ 15% O2	BURNER FIRING	18	PPM @ 15% O2	
	NORTHERN STATES POWER CO. DBA XCEL		TURBINE,	1													
	ENERGY - RIVERSIDE	1	COMBINED	NATURAL						PPMVD @ 15%							
MN-0066	PLANT	5/16/200	6 CYCLE (2)	GAS	188:	5 mmbtu/h	TWO COMBUSTION TURBINES, THROUGHPUT FOR EACH	GOOD COMBUSTION PRACTICES	1	0102	3-HR BLOCK)	+	10	PPM @ 15% O2	
		1	COMBINED CYCLE														
			COMBUSTION	1			COMBUSTION TURBINE PERMITTED TO USE NG & NO. 2 OIL; DUCT BURNER										3-HR AVG CTG
MNI 0071	FAIRBAULT ENERGY PARK		TURBINE 7 W/DUCT BURN	NATURAL		8 MMBTU/H	PERMITTED TO USE NG & NO. 2 OIL. DUCT BURNER ALSO AUTHORIZED TO COMBUST LIQUID BIOFUEL.	COOD COMPLISTION	1	9 PPMVD	3-HR. AVG CTG ON NG NO DB		PPMVD	3-HR AVG CTG		PPMVD	NG DB NG OR
MN-0071	TAIRBAULT ENERGY PARK	6/5/200	/ I M/DOCT BORN	:R JUAS	175	o[mmB1U/H	COMBUST LIQUID BIOFUEL.	GOOD COMBUSTION	1	ALLUAND	JON NO NO DB	1 2	дегмур	OIL NO DB	- 11	FFMVD	OIL

							invenergy, LLC - Anegheny County Energ										
		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES Each of these units have a natural gas-fired heat recovery	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							steam generator and a natural gas-fired duct burner. Each										
							CT combusts natural gas as the primary fuel and very low-										
			TURBINE				sulfur No. 2 fuel oil as a backup fuel. The use of fuel oil is limited to 1,200 hours per year and only during the										
			COMBINED				months of November through March, and is listed as a										
			CYCLE,				separate process. These units are listed	GOOD COMBUSTION PRACTICES									
NC-0101	FORSYTH ENERGY PLANT	9/29/200	NATURAL GAS,	NATURAL GAS	1944	3 MMBTU/H	as a combined source (all three units) for each type of	AND EFFICIENT PROCESS DESIGN.	11.4	PPM @ 15% O2	3-hour average		,		11.4	5 PPM @ 15% O2	
IVC-0101	TOKST III ENERGI I EANI	9/29/200	TURBINE,		1044.	5 MINIDI COII	inci.	EFFICIENT FROCESS DESIGN.	11.0	11 M (a; 1570 O2		· ·	1		11.0	3 11 M (a) 13 / 6 O2	
			COMBINED	NATURAL							3 HR ROLLING			3 HR ROLLING			
NJ-0074	WEST DEPTFORD ENERGY	5/6/200	9 CYCLE	GAS	1729	8 MMFT3/YR	Natural Gas Usage <= 33,691 MMft^3/yr	CO OXIDATION CATALYST	0.01	LB/MMBTU	AVERAGE	2	PPMVD@15%O2	AVERAGE	()	
			Combined Cycle				per 365 consecutive day period, rolling one										
	PSEG FOSSIL LLC SEWAREN GENERATING		Combustion Turbin	e			day basis (per two turbines and two duct	CO Oxidation Catalyst and Good Combustion Practices and use of Natural			3-HR ROLLING AVE BASED ON			AVERAGE OF THREE ONE			
*NJ-0081	SEWAREN GENERATING STATION	3/7/201	-Siemens turbine 4 without Duct Burn	r Natural oas	3369	1 MMCubic ft/vr	burners) The heat input rate of each Siemens combustion turbine will be 2,356 MMBtu/hr(HHV)	Combustion Practices and use of Natural loas as a clean burning fuel		PPMVD@15% O2	L-HR BLOCK	12	llb/hr	HOUR TESTS			
10 0001	DITTION	3/7/201	COMBINED	Tuturui gus	3307	I IMMEGINE IL II	The near input rate of each ofenicio compositor anome will be 2,350 minute in (1111)	gas as a cican barring raci	·	TT M VD(0,15 / 0 OZ	1-III DLOCK		ito in	HOUR HEATS	,	,	
			CYCLE COMBUSTION				Natural Gas Usage ← 33,691 MMft^3/yr										
			TURBINE				per 365 consecutive day period, rolling one										
			WITHOUT DUCT				day basis (per two turbines and two duct										
	PSEG FOSSIL LLC		BURNER -				burners)	CO Oxidation Catalyst and Good			3-HR ROLLING			AVERAGE OF			
*NJ-0081	SEWAREN GENERATING STATION	2.77201	GENERAL 4 ELECTRIC	Natural Gas	2260	1 MMCF/YR	The heat input rate of each General Electric combustion turbine will be 2,312	Combustion Practices and use of Natural gas as a clean burning fuel		PPMVD@15%O2	AVE BASED ON 1-HR BLOCK	10.2	11.4	THREE ONE HOUR TESTS		,	
-1NJ-0081	SIATION	3///201	4 ELECTRIC	Naturai Gas	3309	I MMCF/IR	MMBtw/hr(HHV) This is a 427 MW Siemens Combined Cycle Turbine with duct burner	gas as a clean burning idei	†	FFMVD(@1370O2	1-DR BLOCK	10.2	10/nr	HOUR TESTS	,	,	
			L				Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)				l						
	WEST DEPTEODS ENDED OV		Combined Cycle Combustion Turbin				Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)	Oxidation Catalant and House No.			3-HR ROLLING			3-HR ROLLING			
*NJ-0082	WEST DEPTFORD ENERGY STATION	7/18/201	4 without Duct Burn		2028	2 MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burner.	Oxidation Catalyst and Use of Natural gas a clean burning fuel	0.0	PPMVD@15%O2	AVE BASED ON 1-HR BLOCK	4.75	lb/hr	AVE BASED ON 1-HR BLOCK		0	
	CAITHNES BELLPORT		COMBUSTION	NATURAL					1			4.7.2	1		1		
NY-0095	ENERGY CENTER	5/10/200	6 TURBINE	GAS	222	1 MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	OXIDATION CATALYST	1	PPMVD@15%02		0			()	-
			2 Combined Cycle				Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
			Combustion				install either 2 Siemens or 2Mitsubishi, not both (not determined).										
	OREGON CLEAN ENERGY		Turbines-Siemens,			MMSCF/rolling 12-	Short term limits are different with and without duct burners.							PER ROLLING 12	2-		PPMVD AT 15%
*OH-0352	CENTER	6/18/201	3 without duct burne	s Natural Gas	51560	0 months	This process without duct burners.	oxidation catalyst	13	lb/hr		72.2	T/YR	MONTHS	2	PPM	O2
							Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300										
			2 Combined Cycle				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
	OREGON CLEAN ENERGY		Combustion Turbines-Mitsubish	.			install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.							PER ROLLING 12	,		PPMVD AT 15%
*OH-0352	CENTER	6/18/201	3 without duct burne		4791	7 MMSCF/rolling 12-MO	This process without duct burners.	oxidation catalyst	13.7	lb/hr		183.9	T/YR	MONTHS] 2	PPM	02
							Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.										PPMVD AT 15%
	DUKE ENERGY HANGING		Turbines (4) (mode GE 7FA) Duct	NATURAL			These limits are for each of the 4 turbines individually, while operating with the duct burners off. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Good combustion practices burning						PER ROLLING 12			O2 ON 24-H BLOCK
*OH-0356	ROCK ENERGY	12/18/201	2 Burners Off	GAS	17.	2 MW	burners.	natural gas	25.7	lb/hr		278	T/YR	MONTHS		PPM	AVERAGE
	PSO SOUTHWESTERN		GAS-FIRED														
OK-0117	POWER PLT	2/9/200	7 TURBINES COMBINED	-		1		COMBUSTION CONTROL	25	PPMVD	@15% O2	0	0		()	
			CYCLE														
			COGENERATION	NATURAL													
OK-0129	CHOUTEAU POWER PLANT	1/23/200	9 >25MW COMBUSTION	GAS	188:	2 MMBTU/H	SIEMENS V84.3A	GOOD COMBUSTION		PPMV	1-HR AVG	51.32	PPMV	3-HR AVG	()	
			TURBINE & amp;				GE 7241FA TURBINE AND DUCT BURNER.										
			HEAT RECOVER	Y													
OR-0041	WANAPA ENERGY CENTER	0.0000	STEAM 5 GENERATOR	NATURAL GAS	2204	1 MMBTU/H	COMBUSTION TURBINE - 1,778.5 MMBTU/HR DUCT BURNER - 605.6 MMBTU/HR	OXIDATION CATALYST.		PPMDV @ 15%	3 HOURS					PPM @ 15% O2	
OK-0041	WANAPA ENERGY CENTER	8/8/200	GENERATOR	GAS	2384.	I MMB1U/H	DUCT BURNER - 605.6 MMBTU/HR	OXIDATION CATALYST.	+	102	3 HOURS	-	1		-	PPM (a) 15% O2	
							Two combine cycle Turbines, each with a combustion turbine and heat recovery steam										
	MOXIE LIBERTY		Combined-cycle				generator with duct burner. Each combined-cycle process will be rated at 468 MW or less. The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the							468 MW			
PA-0278	LLC/ASYLUM POWER PL T	10/10/201	Turbines (2) - 2 Natural gas fired	Natural Gas	327	7 MMBTU/H	heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the heat input rating of each supplemental duct burner is equal to 387 MMBtu/hr (HHV) or less.	Ovidation Catalyst		PPMVD	@15% O2	15.3	lb/br	POWERBLOCK		PPMVD	@15% O2
111-0270	MOXIE ENERGY	10/10/20/	Combined Cycle	Tuturui Cus		7 IMMEDICALI		Oxfordion Catalyst			(d)1570 OZ	10.0		TOWERDECCK		11.1111	(a) 13 70 O2
*PA-0286	LLC/PATRIOT GENERATION PLT		Power Blocks 472	N			Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a	CO Corolon	1 .	PPMDV			T/YR	EACH UNIT	1 .	J	
-rA-0286	GENEKATION PL1	1/31/201	3 MW - (2)	Natural Gas	+ '	U	combustion turbine and heat recovery steam generator with duct burner.	CO Catalyst	 	FFMDV	 	109.3	1/1 K	EACH UNII	+ (,	
			Combined Cycle														
	SUNBURY GENERATION		Combustion Turbin	e			Three powerblocks consisting of three (3) natural gas fired F class combustion turbines coupled with three (3) heat recovery steam generators (HSRGs) equipped				CORRECTED TO			DUCT BURNERS NOT	1		DUCT BURNERS
*PA-0288	LP/SUNBURY GENERATION LP/SUNBURY SES	4/1/201	3 BURNER (3)	Natural Gas	253800	0 MMBTU/H	with natural gas fired duct burners.	Oxidation Catalyst	-	PPM	15% OXYGEN	10.6	lb/hr	OPERATING	11.2	LB/H	OPERATING
		4.1/201	1		253800		with natural gas fired duct burners. The Permittee shall select and install any of the turbine options listed below (or newer versions		1 '	T		70.0	1		1	1	
							of these turbines if the										
							Department determines that such newer versions achieve equivalent or better emissions rates and exhaust parameters)										
			1	1		1	1. General Electric 7FA (GE 7FA)				1						
			COMBINED				Siemens SGT6-5000F (Siemens F) Mitsubishi M501G (Mitsubishi G)				WITH OR			INCLUDING			
	1		CYCLE UNITS #1	1		1	Mitsubishi M501G (Mitsubishi G) Siemens SGT6-8000H (Siemens H)			PPMVD @ 15%	WITH OR WITHOUT DUCT		TPY 12-MONTH	STARTUP AND			
	HICKORY RUN ENERGY	4/23/201	3 and #2	Natural Gas	3.	4 MMCF/HR	The emissions listed are for the Siemens SGT6-8000H unit.	CO catalyst	<u> </u>	OXYGEN	BURNER	267.32	ROLLING	SHUTDOWN)	<u> </u>
*PA-0291	HICKORY RUN ENERGY STATION										12-MONTH ROLLING		1	1			
*PA-0291	STATION				1	1	Equipped with SCR and Oxidation Catalyst	CO Catalyst	211.92	TPV	ROLLING TOTAL	1 .	J		1		
	STATION BERKS HOLLOW ENERGY	19/12/200	Turbine, Combined	Naturel God	204)	
*PA-0291 *PA-0296	STATION	12/17/201	3 Cycle, #1 and #2 Turbine,	Natural Gas	304	6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst	,			IOIAL	0	,		-)	BASED ON A 12-
	STATION BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/201	3 Cycle, #1 and #2 Turbine, COMBINED	Natural Gas	304	6 MMBtu/hr	Equipped with SCR and Oxidation Catarys.				IOIAL	0	,)	MONTH
*PA-0296	STATION BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE FUTURE POWER PA/GOOD		3 Cycle, #1 and #2 Turbine, COMBINED CYCLE UNIT				Equipped with SCR and Oxidation Catalyst			PRIMATA			11.4	WITH DUCT	(TAND	MONTH ROLLING
	STATION BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/201 3/4/201	3 Cycle, #1 and #2 Turbine, COMBINED	Natural Gas Natural Gas		6 MMBtw/hr 7 MMBtw/hr	Equipped with SK. and Oxforditor Catalyst	CO Catalyst		PPMVD	@ 15% OXYGEN	17.9	lb/hr	WITH DUCT BURNER	84.8	B T/YR	MONTH
*PA-0296 *PA-0298	STATION BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE FUTURE POWER PA/GOOD SPRINGS NGCC FACILITY CITY PUBLIC SERVICE IK SPRUCE ELECTRICE	3/4/201	3 Cycle, #1 and #2 Turbine, COMBINED CYCLE UNIT 4 (Siemens 5000) SPRUCE POWER GENERATOR				Eduryce Win S. F. and Oxformer Cautys					***	1011		84.8) 8 T/YR	MONTH ROLLING
*PA-0296	STATION BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE FUTURE POWER PA/GOOD SPRINGS NGCC FACILITY CITY PUBLIC SERVICE IK		3 Cycle, #1 and #2 Turbine, COMBINED CYCLE UNIT 4 (Siemens 5000) SPRUCE POWER GENERATOR						4480			***	ib/hr		84.8) 3 T/YR	MONTH ROLLING
*PA-0296 *PA-0298	STATION BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE FUTURE POWER PA/GOOD SPRINGS NGCC FACILITY CITY PUBLIC SERVICE IK SPRUCE ELECTRICE	3/4/201	3 Cycle, #1 and #2 Turbine, COMBINED CYCLE UNIT 4 (Siemens 5000) SPRUCE POWER GENERATOR				EACH TURBINEHRSG WILL BE DESIGNED TO OUTPUT 359 MW. TURBINES BEING CONSIDERED FOR THE PROJECT ARE GE 7FB, AND SEMENS SOTIO		4480			***	1011		84.8) 8 T/YR	MONTH ROLLING

	1		1	1	1	I	I	I	1	1	1				1	1	
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
							LAMAR POWER PARTNERS PROPOSES TO CONSTRUCT A NATURAL GAS-FIRED COMBINED-CYCLE POWER BLOCK TO BE BUILT AT THE EXISTING SITE IN										T
							LAMAR COUNTY, TEXAS. THE NEW POWER BLOCK WILL BE CAPABLE OF										
							PRODUCING EITHER 620 OR 910 MEGAWATTS OF ELECTRICITY, DEPENDING UPON WHICH COMBUSTION TURBINE MODEL OPTION IS CHOSEN. THE										
							PROPOSED PROJECT WOULD INCLUDE TWO COMBUSTION TURBINES (EITHER										
							170 MW GENERAL ELECTRIC 7FAS OR 250 MW MITSUBISHI 501GS), TWO HEAT										
	NATURAL GAS-FIRED						RECOVERY STEAM GENERATORS WITH DUCT BURNERS AND ONE STEAM TURBINE. THE GE7FAS WOULD BE CAPABLE OF PRODUCING 620 MW OF										
	POWER GENERATION		ELECTRICITY	NATURAL			ELECTRICITY IN COMBINED CYCLE MODE, WHILE THE M501GS WOULD				@ 15% O2, 24-HI	t					
TX-0547	FACILITY	6/22/2009	GENERATION	GAS	250	MW	PRODUCE 910 MW IN COMBINED CYCLE MODE.	GOOD COMBUSTION PRATICES	1:	PPMVD	ROLLING AVG		0		()	
							FOUR GE PG7121(EA) COMBINE CYCLE TURBINES FIRING NATURAL GAS WILL										
							DIRECTLY GENERATE 75 MW; EACH HAS A 165 MMBTU/HR DUCT BURNER AND A HEAT RECOVERY STEAM GENERATOR. TWO HRSG¿S WILL TURN ONE 125										
	MADISON BELL ENERGY		ELECTRICITY	NATURAL			MW STEAM TURBINE AND THE OTHER TWO WILL TURN ANOTHER 125 MW				@ 15% O2, 1-HR						
TX-0548	CENTER	8/18/2009	GENERATION	GAS	275	MW		GOOD COMBUSTION PRACTICES	17.:	PPMVD	ROLLING AVG		0		()	_
							The plant will be designed to generate 1,350 nominal megawatts of power. There are two configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode										
							(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B			PPMVD AT 15%							
TX-0590	KING POWER STATION	8/5/2010	1 Turbine	natural gas	1350	MW	also includes one or two auxiliary boilers. (2) GE7FA at 195 MW each,	oxidation catalyst	-	02	ROLLING ROLLING 3-HR		0	ROLLING 3-HR	-		+
							(1) steam turbine at 200 MW.				AT 15%			AT 15%			
TX-0600	THOMAS C. FERGUSON POWER PLANT	0/1/2011	Natural gas-fired turbines		200	MW	Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which	Good combustion practices and oxidation catalyst	1	PPMVD	OXYGEN/LOAD		6 PPMVD	OXYGEN /LOAI < 60%)		
1X-0600	POWER PLANI	9/1/2011	turbines	natural gas	390	MW	provides steam for the steam turbine.	cataryst	<u> </u>	PPMVD	>= 60% @ 15% O2 ON A		6 PPMVD	< 60%		1	+
TV 0610	CHANNEL ENERGY	1005	Combined Cycle	L.,		L OV	The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a	Cdbdi		DDN 47/D	24-HR ROLLING				1 .		
TX-0618	CENTER LLC	10/15/2012	z i urbine	naturai gas	180	MW	maximum design heat input of 475 MMBtu/hr. natural gas-fired combined cycle turbine generator with a heat recovery steam generator	Good combustion	 	PPMVD	AVG		U		+ '		+
	DEED DADY						equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts										
TX-0619	DEER PARK ENERGY CENTER	9/26/2012	Combined Cycle Turbine	natural gas	180	MW	and the DB will have a maximum design rate capability of 725 million British thermal units per hour	good combustion] .	PPMVD	@15% O2, 24-HR ROLLING AVG		0		1 .	,	
		,/20/2012		tuu gus	100			Acces accessions	1						1		1
							The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a maximum base-load electric power output of approximately 195 megawatts (MW). The steam										
			Combined cycle gas				turbine is rated at approximately 235 MW. This project also includes the installation of two				@15% O2, 24-HR						
TX-0620	ES JOSLIN POWER PLANT	9/12/2012	2 turbine	natural gas	195	MW	emergency generators, one fire water pump, and auxiliary equipment. No duct burners.	good combustion		PPMVD	ROLLING AVG		0		-)	
							The generating equipment consists of two natural gas-fired combustion turbines (CTs), each										
							exhausting to a fired heat recovery steam generator (HRSG) to produce steam to drive a shared steam turbine generator. The steam turbine is rated at 271 MW of electric output. Three										
							models of combustion turbines are being considered for this site: the General Electric 7FA.05,										
							the Siemens SGT6-5000F(4), and the Siemens SGT6-5000F(5). The final selection of the								_		
	PINECREST ENERGY		combined cycle				combustion turbine will not be made until after the permit is issued. Plant output will range between 637 and 735 MW, depending on the model turbine selected. Duct Burners are rated				3-HR ROLL AVG 15% OXYGEN,			3-HR ROLL AV 15% OXYGEN.	3,		
*TX-0641	CENTER	11/12/2013		natural gas	700	MW	at 750 MMBtu/hr each.	oxidation catalyst	:	PPMVD	80-100% LOAD		4 PPMVD	60-80% LOAD	()	
											CORRECTED TO	1					
	FGE TEXAS POWER I AND						Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity 409				ROLLING 3 HR						
*TX-0660	FGE TEXAS POWER II	3/24/2014	4 Alstom Turbine	Natural Gas	230.7	MW	MMBtu/hr	Oxidation catalyst	-	PPMVD	AVE @15% O2 3		0		-)	+
	FREEPORT LNG						The exhaust heat from the turbine will be used to heat a heating medium which is used to				HOUR ROLLING						
*TX-0678	PRETREATMENT FACILITY	Y 7/16/2014	4 Combustion Turbine	natural gas	87	MW	regenerate rich amine from the acid gas removal system.	oxidation catalyst		PPMVD	AVERAGE		0		()	
	WEST PLANT AND EAST PLANT CENTRAL HEAT		Two Combustion								15% O2, 24HR						
*TX-0687	AND POWER	10/13/2014	4 Turbine-Generators	Natural Gas	13	MW	Combined Cycle	Good combustion practices	51	PPM	ROLLING AVG.		0		()	
	CEDAR BAYOU ELECTRIC		Combined cycle								ROLLING 12						
*TX-0689	GENERATION STATION	8/29/2014	4 natural gas turbines	Natural Gas	225	MW		ос		PPM	MONTHS		4 PPM	1HR AVG.	()	
*TX-0698	BAYPORT COMPLEX	9/5/2013	(4) cogeneration	natural eas	90	MW	(4) GE 7EA turbines providing power and process steam	DLN and Closed Loop Emissions Controls (CLEC)	1.	PPMVD	@15% O2		0				
174-0070	DATE OF COMPLEX	9/3/201	, turbines	mituru gus	70			Control (CEEC)		11	(0.1570 02				,		+
							The specific equipment includes two combustion turbines (CTs) connected to electric generators, producing between 183 and 232 MW of electricity, depending on ambient										
							temperature and the selected CT. The two HRSGs use duct burners rated at 750 MMBtu/hr										
							each to supplement the heat energy from the CTs. The steam from the two HRSGs is combined and routed to a single steam turbine driving a third electric generator with an electricity output										
							and routed to a single steam turbine driving a third electric generator with an electricity output capacity of 271 MW. Depending on the selected CT, total plant output at 59°F is between										
							637 MW and 735 MW.										
				1			The applicant is considering three models of CT; one model will be selected and the permit				@15% O2 3-HR			@15% O2. 3-HR	1		
	LA PALOMA ENERGY		(2) combined cycle				revised to reflect the selection before construction begins. The three CT models are: (1)				ROLLING, 80-			ROLLING, 60-			
*TX-0708	CENTER	2/7/2013	Natural gas-fired	natural gas	650	MW	General Electric 7FA.04; (2) Siemens SGT6-5000F(4); or (3) Siemens SGT6-5000F(5).	oxidation catalyst	1	PPMVD	100% LOAD		4 PPMVD	80% LOAD	-		+
	SAND HILL ENERGY		combined cycle														
*TX-0709	CENTER	9/13/2013	turbines	Natural Gas	173.9	MW	Conomic Electric 7EA 04 et 197 MW nominal	oc	1	PPM	1HR AVG.	-	0		-		
				1			General Electric 7FA.04 at 197 MW nominal ouput. The duct burners will be capable of a maximum natural gas firing rate of up to 483 MMBtu/hr (HHV). The duct burners may be								1		
							fired additional hours; however, total annual firing will not exceed the equivalent of 4,375										
	VICTORIA POWER		combined cycle				hours at maximum capacity per duct burner. The available capacity of the existing steam turbine will be increased from 125 MW in its existing 1x1x1 configuration to approximately				@15% O2, 3-HR ROLLING						
*TX-0710	STATION	12/1/2014		natural gas	197	MW	185 MW in the 2x2x1 configuration. The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion	oxidation catalyst	1	PPMVD	AVERAGE		0				
				_			The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion turbine nominally rated at 497 megawatts (MW) equipped with a HRSG and DB with a				@15% O2, 24-HR						
	TRINIDAD GENERATING		combined cycle	1			maximum design capacity of 402 million British thermal units per hour (MMBtu/hr). The				ROLLING				1		
*TX-0712	FACILITY	11/20/2014	4 turbine	natural gas	497	MW	gross nominal output of the CTG with HRSG and DB is 530 MW.	oxidation catalyst	+	PPMVD	AVERAGE		0		-		+
				1			Each CTG is site-rated at 274 MW gross electric output at 62°F ambient temperature. At								1		
							this condition, two HRSGs with full duct burner firing produce enough steam to generate an										
	TENASKA BROWNSVILLE		(2) combined cycle				additional 336 MW, for a total of 884 MW gross, or with about 5% losses, about 840 MW net electric output. Under summertime conditions, the net output is approximately 800 MW with				@15% O2, 24-HR ROLLING	1			1		
*TX-0713	GENERATING STATION	4/29/2014	(2) combined cycle turbines	natural gas	274	MW	the 2xl CCGT configuration or about 400 MW with the 1xl CCGT configuration.	oxidation catalyst	<u> </u>	PPMVD	AVERAGE		0			1	1
						•							-				

							invenergy, LLC - Allegneny County Energ									1	
RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
							The gas turbines will be one of three options:										
							(1) Two Siemens Model F5 (SF5) CTGs each rated at nominal capability of 225 megawatts (MW). Each CTG will have a duet fired HRSG with a maximum heat input of 688 million British thermal units per hour (MMBtu/hr).										
							(2) Two General Electric Model 7FA (GE7FA) CTGs each rated at nominal capability of 215										
							MW. Each CTG will have a duct fired HRSG with a maximum heat input of 523 MMBtu/hr.										
	S R BERTRON ELECTRIC		(2) combined cycle				(3) Two Mitsubishi Heavy Industry G Frame (MHI501G) CTGs each rated at a nominal electric output of 263 MW. Each CTG will have a duct fired HRSG with a maximum heat				@15% O2, ONE			@15% O2, ROLLING 12-			
*TX-0714	GENERATING STATION CEDAR BAYOU ELECTRIC	12/19/2014	Combined cycle	natural gas		MW	input of 686 MMBtu/hr.	oxidation catalyst	4	PPMVD	HOUR	2	PPMVD	MONTH	0		
*TX-0727	GENERATING STATION	3/31/2015	turbines Combined-cycle gas	Natural Gas	187	MW/turbine		Oxidation catalysts	15	PPMVD	15%O2	0			0		+
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/2015	turbine electric generating facility	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	SCR and oxidation catalyst		PPMVD @ 15% O2	3-HR AVERAGE	0			0		
	EAGLE MOUNTAIN STEAM		Combined Cycle Turbines (>25 MW) â& natural				Two power configuration options authorized				ROLLING 24-HR						
*TX-0751	ELECTRIC STATION	6/18/2015	gas naturai	natural gas	210	MW	Siemens â6° 23 Î MW + 500 million British thermal units per hour (MMBtu/hr) duct burner GE â6° 210 MW + 349.2 MMBtu/hr duct burner	Oxidation catalyst	2	PPM	AVERAGE	0			0		
	LON C. HILL POWER		Combined Cycle Turbines (>25				Two power configuration options authorized Siemens – 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner				ROLLING 24-HR						
*TX-0767	STATION	10/2/2015	MW)	natural gas	195	MW	GE – 195 MW + 670 MMBtu/hr duct burner	Oxidation Catalyst	2	PPM	AVERAGE	0		ONE HR	0		
			COMBINED CYCLE TURBINE								ONE HR AVERAGE (W/O			AVERAGE (WITH DUCT			
VA-0315	WARREN COUNTY POWER PLANT - DOMINION	12/17/2010	& amp; DUCT BURNER, 3 COMBUSTION	Natural Gas	2996	MMBTU/H	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Oxidation catalyst and good combustion practices.	1.5	PPMVD @ 15% O2	DUCT BURNER FIRING)	2.4	PPMVD	BURNER FIRING)	0		
*VA-0321	BRUNSWICK COUNTY POWER STATION		TURBINE GENERATORS, (3)	Natural Gas	3442	MMBTU/H	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duet burners (natural gas-fired).	Oxidation catalyst; good combustion practices.	1.	PPMVD @ 15% O2	AVG/WITHOUT DUCT BURNING						
111-0321	GREEN ENERGY	37122013	Large combustion turbines	Tutuu Ous	3442	Minipi Coli	Throughput and Units above are for the GEF7.05.	practices		02	DOCT BORGERO	,			,		
*VA-0322	PARTNERS/ STONEWALL, LLC	4/30/2013	(>25MW) CCT1 and CCT2	Natural Gas	2.23	MMBTU/hr	Siemens SGTF-5000F5: Throughput: 2.260 MMBTU/hr	Catalytic Oxidizer				0			0		
			GE 7FA COMBUSTION														
	BP CHERRY POINT		TURBINE & amp; HEAT RECOVERY STEAM	NATURAL			THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL	LEAN PRE-MIX CT BURNER &									UNITS NOT AVAILABLE
WA-0328	COGENERATION PROJECT	1/11/2005		GAS	174	MW	AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR.	OXIDATION CATALYST		PPMDV	3-HR @ 15%O2	0		30-DAY	0	PPM@ 15 % 02	
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	8/28/2012	Combined Cycle Turbine (EP01)	Natural Gas	40	MW		Oxidation Catalyst		PPMV AT 15%	1-HOUR	3.7	llb/hr	ROLLING AVERAGE	32	T/YR	
			(,								3-hour block average; Duct			1-hr average; Du			
	Astoria Energy LLC		Combustion Turbine		1000			Oxidation Catalyst DLN combustion design; oxidation	1.5	ppmvd @ 15% O2	Burners Off	7.15	lb/hr	Burners Off			
	Catoctin Power LLC Footprint Power Salem Harbor		Combustion Turbine	Natural Gas		MW		catalyst	1	ppmvd @ 15% O2	1-hr average; Duct			1-hr average; Du	1		
	Development LP Footprint Power Salem Harbor		Combustion Turbine	Natural Gas		MW		Oxidation Catalyst		lb/hr	Burners Off 1-hr average; Duct	0.0045		Burners Off 1-hr average; Due	at .		+
	Development LP Kalama Energy Center		Combustion Turbine Combustion Turbine		346	MW MMBtu/hr		Oxidation Catalyst Oxidation Catalyst		ppmvd @ 15% O2	Burners Off	0.0027	lb/MW-hr	Burners Off 1-hr average			-
	Kalama Energy Center		Combustion Turbine			MMBtu/hr		Oxidation Catalyst	131.1	tov	12-mo rolling	11.3	10/Hr	1-nr average			1
	Lawrence Energy Center LLC		Combustion Turbine			MW		Oxidation Catalyst and GCP		ppmvd @ 15% O2							
	Lawrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW		Oxidation Catalyst and GCP	1	ppmvd @ 15% O2	1-hr average						
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	MMBtu/hr				ppmvd @ 15% O2		8	lb/hr				
	PacifiCorp Energy		Block l CT	Natural Gas						ppmvd @ 15% O2	3-hour	14.1	lb/hr				
<u> </u>	PacifiCorp Energy		Block 2 CT	Natural Gas		MW				ppmvd @ 15% O2		14.1	lb/hr				+
<u> </u>	Pioneer Valley Russell City Energy Company,		Combustion Turbine	Natural Gas		MW			2	ppmvd @ 15% O2	1-hr average						+
	LLC Sevier Power Company Power		Combustion Turbine	Natural Gas		MMBtu/hr			1	ppmvd @ 15% O2	1-hr average		<u> </u>				+
	Plant CPV Valley Energy Center Wayneyanda NV		Combustion Turbine	Natural Gas Natural Gas	-	MW			1	ppmvd @ 15% O2 ppmvd @ 15% O2	3-hr average						+
	Wawayanda, NY Woodbridge Energy Center (CPV Shore, LLC)			Natural Gas Natural Gas		MW MMBtu/hr				ppmvd @ 15% O2	1-nr average						1
	(C. V SHORE, EEC.)		COMBINED HEAT		2,307	IDIWIII			<u> </u>	. помичи (4) 1376 О2							1
			AND POWER DUAL-FIRED														
	PA STATE UNIV/UNIV PARK CAMPUS		COMBUSTION TURBINE	Natural Gas	86.29	MMBtu/hr			1.3	ppmvd @ 15% O2							
	Hummel Station LLC		Combustion Turbine	Natural Gas	2,254.00	MMBtu/hr			-	ppmvd @ 15% O2		11.22					1
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW				ppmvd @ 15% O2	1-hr average						
	Effingham County Power Gibson County Generation,		Combustion Turbine	Natural Gas		MW				ppmvd @ 15% O2	3-hr average	-	-				
	LLC		Combustion Turbine		417					ppmvd @ 15% O3	24-hr average		lb/MMBtu				+
	Pioneer Valley Energy Center Russell City Energy Company,		Combustion Turbine			MMBtu/hr			2	ppm @15% O2		12.3	lb/hr	1			+
	LLC		Combustion Turbine			MMBtu/hr			1	ppm @15% O2	1-hour	10	lb/hr	1			+
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	3147	MMBtu/hr			1 - 2	ppm @15% O2		15.9	lb/hr		1		

RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	EMISSION LIMIT 1		AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	UGI Development Co/ Hunlock															
	Creek			Natural Gas	471.2	MMBtu/hr		4	ppm @15% O2	>32 °F						
	UGI Development Co/ Hunlock	:														
	Creek			Natural Gas		MMBtu/hr				<32 °F						
	Hawkeye Generating, LLC			Natural Gas	615	MW		0.0115	lb/MMBtu	3-hr rolling	194.	79 tpy				
	Huntington Beach Energy															
	Project			Natural Gas	939	MW (net)		2	2 ppm @15% O2	1-hr rolling						
	Hess Newark Energy Center		Combustion Turbine	Natural Gas	2320	MMBtu/hr		2	2 ppm @15% O2	3-hr rolling	0.00	44 lb/MMBtu				
										3 hour average,						
	York Energy Center Block 1				1574	MMBtu/hr		- 6	5 ppmvd	rolling by 1-hour						
										3-hour block						
										average; average or	f					
	York Energy Center Block 2	6/15/2015			2512.5	MMBtu/hr	firing NG with duct burner	2	ppmvd @ 15% O2							
										3-hour block						
	York Energy Center Block 2	6/15/2015			2512.6	MMBtu/hr	firing NG without duct burner	l .	ppmvd @ 15% O2	average; average of	'					
_	Shell Chemical	0/13/2013			2312	MMDtulli	ining NO without duct builter		ppinva (a) 1379 O2	3 test tuns						
	Appalachia/Petrochemicals															
	Complex	6/18/2015			664	MMBtu/hr	combustion turbines with duct burners		ppmvd @ 15% O2	1-hour average	Ib	/hr				
		0/10/2013			1		***************************************	†	1074 02	- III III II retuge	1					
	Liberty Electric Power, LLC				1954	MMBtu/hr	Without DB	9	ppmvd @ 15% O2							
	Liberty Electric Power, LLC				1954	MMBtu/hr	With DB	20	ppmvd @ 15% O2							

Mark							invenergy, LEG - Anegheny County Energ	,								1
Column	RBLCID					THROUGHPUT THROUGHPUT UNIT	PROCESS NOTES								UNIT	AVG TIME CONDITION
March Marc	CT-0161	KILLINGLY ENERGY CENTER	6/30/2017	Natural Gas w/Duc	Natural Gas	2639 MMRtu/hr	Duct humor MRC is 946 MMhtm/hr	Ovidation Catalant	1.6	PPMVD @15%		0			0	
Control Cont		SEMINOLE GENERATING		2-on-1 natural gas			Two GE 7HA.02 combustion turbines, each rated at 415 MW. Total unit capacity is		1.0	02	WITHOUT DUC	Г	CT + DUCT			
Column C	FL-0364		3/21/2018	combined-cycle un	Natural gas	3514 MMBtu/hr	approximately 1,183 MW (gross) and 1,050 MW (net). Due to netting, triggered PSD only for	Oxidation catalyst	1	PPMVD@15% O2		g 2 PPMV			0	
1985 1986	LA-0313	STATION	8/31/2016	Cycle Unit 1A	Natural Gas	3625 MMBTU/hr		practices for normal operations, and good	61.27	LB/H	MAXIMUM	226.16 T/YR	MAXIMUM		0	
Second Content	I A-0313		8/31/201/		Natural Gas	3625 MMRTU/hv			61.27	I B/H		226 16 T/VR			0	
March Marc				FGCTGHRSG (2			There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat	Oxidation Catalyst Technology and Good			TEST	220.10 1718	MAXIMOM			
March Marc	MI-0423	INDECK NILES, LLC	1/4/2017		Natural gas	8322 MMBTU/H	recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the		4	PPM		0			0	
Property	MI-0424	PUBLIC WORKS - EAST 5TH	12/5/2016	Combined cycle	Natural gas	554 MMBTU/H, each	recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG).	combustion practices.	4	PPM AT 15% O2	PROTOCOL	0			0	
March Marc	ex (1 0 422		7,70,7016		N	1220 MW	Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG)		Ι,	DDMAND		I 48 TAVE	EACH CT/HR	SG .	0	
March Marc		MEC NORTH, LLC AND		EUCTGHRSG	Ivaturar gas		A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery	Oxidation catalyst technology and good	 		AT 15%O2; NOT	401718	TRAIN, 12-W	,	0	
Section Control Cont	*MI-0433	MEC SOUTH LLC	6/29/2018		Natural gas	500 MW	steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a	combustion practices.	4	PPMVD	INCL.	0			0	
March Marc	*MI-0433	MEC SOUTH LLC	6/29/2018	(North Plant): A		500 MW	HRSG duct burner rating of 755 MMBTU/hr (HHV).	combustion practices.	4	PPMVD		0			0	
March Marc	TV 0010	GAINES COUNTY POWER	4292013	Combined Cycle	NATURAL	426 MW		Oxidation catalyst and good combustion	,,	DDMAND	159/ 02				0	
Service Note No. 1985		GREENSVILLE POWER		COMBUSTION	UAS		Turoine Generators		3.3	FFMVD	1376 02	0		i-12	0	
Marie Mari	*VA-0325		6/17/2016	TURBINE	natural gas	3227 MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.		1.4	PPMVD		214.8 T/YR	MO ROLLING		0	
WINDERSON Control Co	*WV-0029		3/27/2018	GE 7HA.02 Turbin	Natural Gas	3496.2 mmBtu/hr		Practices Catalyst, Good Combustion	11.4			54.8 TONS	YEAR		2 PPM	
Section Sect	CA 1177			Gas turbine	Notes and and	121 2 MW				PPMVD @ 15%	LHOUD				0	
Mark	CA-11//	CENTER LLC	1/22/2009		i vaturai gas	1/1./ MW			1 2	102	1 HOUK	0				1
March Marc	CA 1170	ADDITION ENERGY LLC	2,00,000		Natural		1.45 ppm NOx @ 15% O2 or 2.19 lb/hr	Oxidation autabut	1 .	PPMVD @ 15%	1 HOUR				0	
CHICAN CANNATIVE CHICAN CANN	CA-11/8	ALL LIED ENERGY LLC	3/20/2009	COMBUSTION	ivaturai gas	"	>0.22 ppm voc (@)1578O2 0r >0.12 fbmr	Oxidation Catalyst	1 2	102	1 HOUK	0				1
ACTIVE 110 1	l	COLUSA GENERATING		TURBINES	NATURAL		TWO (2) NATURAL GAS EIRED TURBINES AT 122 MW EACH POTH TURBINES			DDMVD @ 150	@15% O2 1 III		I UD DOLLB	G		
Section Sect	CA-1211		3/11/2011	OPERATION)	GAS	172 MW	EQUIPPED WITH A 688 MMBTU/HR DUCT BURNER AND HRSG.		2	O2		11 lb/hr		G .	0	
MICHANISH MICH				NATURAL-GAS												
RECORD R				COMBINED-	NATURAL			PRATICES AND OXIDATION								
REPORT TRANSPORT TRANSPO	CO-0056	ENERGY CENTER, LLC	5/2/2006	CYCLE TURBINE	GAS	300 MW	FACILITY.	CATALYST.	0.0029	LB/MMBTU		0			0	
COMMINION OF THE PROPERTY OF T				SIEMENS SGT6-												
THE PROPERTY OF THE PROPERTY O							THROLIGHPLIT IS FOR TURBING ONLY WHEN FIRING NATURAL GAS									
CALIFORNIA CAL				TURBINE #1 AND												
CHICA PRINCES CHICAGO																
CT CT CT CT CT CT CT CT				445 MMBTÚ/HR			,	ARE NOT GUARANTEED. EMISSION	4							
SOURCE S	CT 0151	KLEEN ENERGY SYSTEMS,	2.05.000		NATURAL	2 I MMCEAU	EMISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS, NOT COMBINED	RATES DO NOT INCORPORATE THE	s	1h/her	W/OUT DUCT	10.8 Ib/hr	W/DUCT DUDNED		PPMVD @ 15%	1-HR BLOCK
MATERIAL	C1-0131	LLC	2/23/2000	DOCT BORNER	UAS	2.1 MWC1/11	500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr	TOTENTIAL REDUCTION.	1	10111		10.8 1011	BORNER		3 02	1-HK BLOCK
Comment Comm	*DE 0022		10/21/2013	UNIT 2 KDI	Natural Gas	455 MMRTUA		Oxidation antalust system	6.1	lls/lse					0	
Commission Com	DE-0025	DOVER	10/31/2012	CINII 2º RDI	Natural Gas	033 WWIBTCH		Oxidation catalyst system	- 0.4	10111	AVERAGE				0	
STAM FOR SOULS FIXED TRANSPORT CONTROL STAM FOR SOULS FIXED TRANSPORT CONTROL STAM FOR SOULS FIXED TOTAL SOURCE AND							GENERATING CAPACITY OF 170 MW FOR GAS FIRING (180 MW FOR OIL FIRING).									
A SANGHAL CAPACITY OF 69 No. TOTAL NAMES COMMENTED CYCLE IN SISSION NO. A CAPACITY OF 69 NO. TOTAL NAMES COMMENTED CYCLE IN SISSION NO. A CAPACITY OF 69 NO. TOTAL COMMENTAL COM																
PRINCE FRANCE PRINCE PRI							A NOMINAL CAPACITY OF 470 MW. THE TOTAL NOMINAL GENERATING									
ADDITION							CAPACITY OF THE 4-ON-1 COMBINED CYCLE UNIT IS 1150 MW.									
PR TERREY FORT							FUELS: EACH GAS TURBINE WILL FIRE NATURAL GAS AS THE PRIMARY FUEL									
PI URELY NOTE PI URELY NOT							AND ULTRA LOW SULFUR (0.0015% SULFUR) DISTILLATE OIL AS A RESTRICTED									
PATE							FIRING OF OIL. THE APPLICANT REQUESTS 500 HOURS PER YEAR PER GAS	VOC EMISSIONS WILL BE								
PF. URKEY POINT TURBERY - NATURAL NATURAL NODES OF OPERATION, STANDARD NORMAL OPERATION, WITH DICT ADD DETILLATE OIL AT HERE! PRAYO (§ 15) STACK LTST (CT PPAYO (STACK LTST (CT PPAYO (STACK LTST (CT PPAYO (STACK LTST (CT PPAYO (STACK							TURBINE (OR EQUIVALENT) FOR OIL FIRING.	MINIMIZED BY THE EFFICIENT								
FLOSIS POWER PLANT 28,200 SONTS CAS 170 MW BURNER POWER AGGINETATION AND PLANNES. 13 OZ NORMALI GAS 19 OZ GAS 0		FPL TURKEY POINT			NATURAL		MODES OF OPERATION: STANDARD NORMAL OPERATION, WITH DUCT		1	PPMVD @ 15%	STACK TEST (C	T PPMV	D @ 15 % (DUCT BURN	ER)		
COMBISTION TERRINE NATURAL STEP MABTURE WHEN FRENC DISTILLATE FUEL OIL THE SYSTEM NORMAL CAPACITY 129 MW. EACH INTO MONAL CA	FL-0263	POWER PLANT	2/8/2005	UNITS	GAS	170 MW	BURNER, POWER AUGMENTATION AND PEAKING.		1.3	02	NORMAL) GAS	1.9 02			0	
PROCRESS BARTOW 1000 100	l			CYCLE												
FL-Q55 POWER PLANT 1/26/2007 SYSTEM (4-ON-1) GAS 1972 MMBTUH 215 MW (SO) WITH DUCT_HEED HEAT RECOVERY STEAM GENERATOR. GOOD COMBISTRON 1/2 Q2 CT ONLY - GAS 1.5 PPMVD GAS 0		DDOCDESS DARROW		COMBUSTION	NATURAL		1876 MMBTU/HR WHEN FIRING DISTILLATE FUEL OIL.		1	DDMVD @ 150	@ 15% ON DOD		@ 15% O2 FO	R		
EACH COMBINED CYCLE UNIT SYSTEM (TWO &bagaox&blagex) WILL CONSTST OF: THREE NOMINAL 259 MEGAWATT MODEL 501 G GAS TURBINE-ELECTRICAL GENERATOR SETS WITH EAVORACTIVE PICTOCOLING SYSTEMS: THREE SUPPLEMENTARY-SHED HEAT RECOVERY STEAM GENERATOR SETS WITH SAY REACTIVE PICTOCOLING SYSTEMS: THREE SUPPLEMENTARY-SHED HEAT RECOVERY STEAM GENERATOR SETS WITH SAY REACTIVE PICTOCOLING SYSTEMS. THREE SUPPLEMENTARY-SHED HEAT RECOVERY STEAM GENERATOR SETS WITH SAY REACTIVE PICTOCOLING SYSTEMS. THREE SUPPLEMENTARY-SHED HEAT RECOVERY STEAM GENERATOR. THREE HISGAS, STHEET 149 FEET EVALUATE PICTOCOLING SYSTEMS. THREE SUPPLEMENTARY-SHED HEAT RECOVERY STEAM GENERATOR. THREE HISGAS, STHEET 149 FEET EVALUATE PICTOCOLING SYSTEMS. THREE SUPPLEMENTARY-SHED HEAT RECOVERY STEAM SETS OF THE PICTOCOLING SYSTEMS. THREE SUPPLEMENTARY-SHED HEAT RECOVERY STEAM SETS OF THE PICTOCOLING SYSTEMS. THREE SUPPLEMENTARY SHED HEAT RECOVERY SUPPLEMEN	FL-0285		1/26/2007			1972 MMBTU/H	215 MW (ISO) WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATOR.	GOOD COMBUSTION	1.2	O2		1.5 PPMV			0	
WILL CONSIST OF: THERE NOMINAL 250 MEGAWATT MODEL 501G GAS TURBENE-ELECTRICAL GENERATOR SETS WITH EVAPORATIVE SHET COOLING SYSTEMS, THERE SUPPLEMENTARY FRED HEAT RECOVERY STRAM GENERATORS, OINS ADMINAL 250 MMBTUHOUR (LHV) (DAS-FRED DUCT BURNEL							2117 MMBTU/HR FUEL OIL.									
TURBINE-ELECTRICAL GENERATOR SETS WITH EVAPORATIVE PILET COOLING SYSTEMS; THREE LECTRICAL GENERATORS (HESGA)S, WITH SCA REACTORS, ONE NOMINAL 428 COURT OF COURTS OF COURTY COURTS OF COURTY COURTS OF COU	l						EACH COMBINED CYCLE UNIT SYSTEM (TWO ''3-ON-1'')									
COMBINED							WILL CONSIST OF: THREE NOMINAL 250 MEGAWATT MODEL 501G GAS TURRING-ELECTRICAL GENERATOR SETS WITH EVAPORATIVE INLET COOLING		1							
CYCLE COMBUSTION FILE HIS GAS, THERE HIS FELE FELE FELE FELE FELE FELE FELE FEL							SYSTEMS; THREE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM									
COMBUSTION GAS TURBINES AATURAL SAS TU									1							
FL-0286 ENERGY CENTER 1/10/2007 CUNITS GAS 2333 MMBTUH STEAM-ELECTRICAL GENERATOR. 1.5 O2 GAS 6 O2 OIL 0				COMBUSTION			THREE HRSG¿S; THREE 149 FEET EXHAUST STACKS; ONE 26 CELL		1							
FLUELHEAT INPUT RATE (LHV) OIL2,117 MMBTUH COMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE NOMINAL 250 MW COMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE NOMINAL 250 MW COMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE NOMINAL 250 MW COMBUSTION TURBINE-ELECTRICAL GENERATORS (CTG) WITH EVAPORATIVE REACTORS AND SYSTEMS, THREE SUPPLEMENTARY FRED HEAT RECOVERY STEAM GENERATORS (GRISG) WITH SELECTIVE CATALYTIC REDUCTION (SCR) SPH. WEST COUNTY FPL WEST COUNTY FRED HERS GO WITH EVAPORATIVE GENERATORS (GRISG) WITH SELECTIVE CATALYTIC REDUCTION (SCR) FPMVD @ 15% FPMVD @ 1	FI -0284		1/10/2005		NATURAL	2333 МАЛОТИЛИ	MECHANICAL DRAFT COOLING TOWER; AND A COMMON NOMINAL 500 MW STEAM-FLECTRICAL GENERATOR			PPMVD @ 15%	GAS	PPMV	D @ 15 %		0	
THREE NOMINAL 2.50 MW CTG COMBUSTION TURRINS—ELECTRICAL GENERATORS (CITG) WITH EVAPORATIVE CALL C	12-02-00	LIVIANOI CENTER	1/10/200	0 011113	0.10	2333 MWIDTO/II	FUELHEAT INPUT RATE (LHV): OIL2,117 MMBTU/H		1	102	Cara S	0 02	OIL		-	
259 MW CTG (BACH) WITH STEAM GENERAT RESTRICT SUPPLEMENTAR FIRED HEAT RECOVERY STEAM GENERAT RESTRICT SUPPLEMENTAR FIRED HEAT RECOVERY STEAM GENERAT RESTRICT SUPPLEMENTAR SUPPLEMENTAR STEAM GENERAT RESTRICT SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENTAR STEAM GENERAT RESTRICT SUPPLEMENTAR SUPPLEMENT SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENTAR SUPPLEMENT SUPPLEMEN				THREE NOMINA			COMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE NOMINAL 250 MW COMBINED TURBINE-FLECTRICAL GENERATORS (CTG) WITH EVAPORATIVE									
FP. WEST COUNTY SUPPLEMENTAR NATURAL REACTORS AND A COMMON NOMINAL 500 MW STEAM-ELECTRICAL PPMVD @ 15% 1.2 QZ	l			250 MW CTG			INLET COOLING SYSTEMS; THREE SUPPLEMENTARY-FIRED HEAT RECOVERY									
FL-0303 ENERGY CENTER UNIT 3 7/30/2008 V-FIRED HRSG GAS 2333 MMBTUH GENERATOR. 1.2 O2 1.5 PPMVD 0		FPL WEST COUNTY			NATURAL				1	PPMVD @ 15%						
determinations. determinations.	FL-0303		7/30/2008			2333 MMBTU/H	GENERATOR.		1.2	02		1.5 PPMV	D		0	
Combine cycle							Basis for the emission standard is either NSPS Subpart KKKK or Department BACT determinations.									
E_0337 POLK POWER STATION 10/14/2012 [sower block (4 on 1) natural gas 1160] MW a 3-9-day volling average for natural gas and fiel of 1, respectively. finel Sulfur limits 1.4 (02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				L			The BACT emission standards for NOX while operating in combined cycle are more stringent									
COMBNED CYCLE PLANT MCDONOUGH COMBUSTION NATURAL FOR EACH TURBINE (MITSUBISHI MODEL M501G) BACKUP FUEL FOR TWO PPMVD @ 15% 3-HOUR, WITH WITHOUT DUCT	FL-0337	POLK POWER STATION	10/14/2013	power block (4 on	natural gas	1160 MW	than the corresponding Subpart KKKK emissions standards of 15 and 42 ppmvd @15% O2 on a 30-day rolling average for natural gas and fuel oil, respectively.	fuel Sulfur limits	1.4	PPMVD @ 15% O2		0			0	
PLANT MCDONOUGH COMBUSTION NATURAL FOR EACH TURBING (MITSUBISH) MODEL M50(G). BACKUP FUEL FOR TWO PPMVD @ 15% 3-HOUR, WITH WITHOUT DUCT			1,171,201,	COMBINED												
GA-0127 COMBINED CYCLE 1/7/2008/TURBINE GAS 254/MW TURBINES IS ILLTRA-1 OW SULFUR FUEL OIL OXIDATION CATALYST 18/02 DUCT BURNED 1/9 PAM @ 15% CO. BRIDNED 0	1	PLANT MCDONOUGH			NATURAL		6 LURBINES, 254 MW EACH (NOT INCLUDING STEAM RECOVERY), LIMITS ARE FOR EACH TURBINE (MITSUBISHI MODEL M501G). BACKUP FUEL FOR TWO			PPMVD @ 15%	3-HOUR, WITH			ст		
PARTITION OF POST PARTITION OF	GA-0127	COMBINED CYCLE	1/7/2008		GAS	254 MW	TURBINES IS ULTRA-LOW SULFUR FUEL OIL	OXIDATION CATALYST	1.8	02	DUCT BURNER	1 PPM @	15% O2 BURNER		0	

		1			1									1	1	1	
BLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2 UI	NIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			COMBINED CYCLE														
			COMBUSTION														
			TURBINE -														
			ELECTRIC GENERATING	NATURAL				GOOD COMBUSTION PRACTICES,		PPMVD @ 15%	3-HOUR AVERAGE/COND						
iA-0138	LIVE OAKS POWER PLANT	4/8/2010	PLANT	GAS	6	00 MW		CATALYTIC OXIDATION	1	02	ITION 2.11	0			0)	
	MARSHALLTOWN		Combustion turbine				two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258			PPMVD @ 15%	AVG. OF 3 ONE HOUR TEST			12-MONTH			
IA-0107	GENERATING STATION	4/14/2014	#1 - combined cycle COMBUSTION	natural gas	22	58 mmBtu/hr	mmBtu/hr generating approx. 300 MW each.	catalytic oxidizer	1	02	RUNS	71.2 TO	ON/YR	ROLLING	0		
			COMBUSTION TURBINE,					CATALYTIC OXIDATION (CATOX),									
			COMBINED					DRY LOW NOX (DLN),						3-HR ROLLING /			
	LANGLEY GULCH POWER		CYCLE W/ DUCT	NATURAL			SIEMENS SGT6-5000F COMBUSTION TURBINE (NGCT, CCGT) FOR ELECTRICAL	GOOD COMBUSTION PRACTICES	Ι.	PPMVD @ 15%	3-HR ROLLING /			15% O2 DURING	_		
D-0018	PLANT	6/25/2010	BURNER	GAS (ONLY)	2375.	28 MMBTU/H	GENERATION, NOMINAL 269 MW AND 2.1466 MMSCF/HR	(GCP)	-	02	15% O2 HOURLY AVG	11.5 PI	MVD	LL	0)	
											EXCEPT						
IL-0112	NELSON ENERGY CENTER	12/28/2010	Electric Generation	Notes I Con	١ ,	20 MW each	Two combined cycle combustion turbines followed by HRSGs with capability for supplemental		I .	PPMVD @ 15%	DURING SSM OR TUNING						
L-0112	NELSON ENERGY CENTER	12/28/2010	FOUR (4)	Natural Gas	†	20 MW each	fuel firing in HRSG for each combustion turbine using duct burners.		· ·	102	TUNING	0			0	,	
			NATURAL GAS				n onen in the second of the se										
			COMBINED CYCLE				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners										
	ST. JOSEPH ENEGRY		COMBUSTION	NATURAL			on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct			PPMVD @ 15%							
IN-0158	CENTER, LLC	12/3/2012	TURBINES TWO COMBINED	GAS	23	00 MMBTU/H	burners.	OXIDIZED CATALYST	1	02	3 HOURS	2 PI	MVD	3 HOURS	0)	
	ARSENAL HILL POWER		CYCLE GAS	NATURAL.			CTG-1 TURBINE/DUCT BURNER (FOT012)										ANNUAL.
A-0224	PLANT	3/20/2008	TURBINES	GAS	21	10 MMBTU/H	CTG-2 TURBINE/DUCT BURNER(EQT013)	PROPER OPERATING PRACTICES	12.06	lb/hr	MAX	0			4.9	PPMVD@15%O2	AVERAGE
			COMBINED CYCLE TURBINE				TURBINES ALSO PERMITTED TO BURN NO. 2 FUEL OIL AND ULTRA LOW SULFUR				1						
	NINEMILE POINT		GENERATORS				DIESEL.				HOURLY			HOURLY			
	ELECTRIC GENERATING		(UNITS 6A &	NATURAL				l		PPMVD @ 15%	AVERAGE W/O	PI	MVD @ 15%	AVERAGE W/	_		
A-0254	PLANT	8/16/2011	(6B) Combined Cycle	UAS	71	46 MMBTU/H	FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR.	GOOD COMBUSTION PRACTICES	1.4	102	DUCT BURNER	3.8 O	4	DUCT BURNER	0	1	
			Refrigeration					L			L						
A-0257	SABINE PASS LNG TERMINAL	12// 2011	Compressor Turbines (8)	natural gas	١ ,	86 MMBTU/H	GE LM2500+G4	Good combustion practices and fueled by natural gas	0.66	11.4	HOURLY MAXIMUM						
A-0237	TERMINAL	12/6/2011	Turbines (8)	naturai gas	†	80 MMB1U/II	GE EM2300+G4	naturai gas	0.00	i ioni	1 HR AVG	0					
			L <u>.</u>								EXCLUDING			I HR AVG			
MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Combustion Turbine with Duct Burner	Natural Gas	24	49 MMBtu/hr	two 315 MW (nominal) GE Energy 7F Series 5 Rapid Response Combined Cycle Combustion Turbines with Duct Burners and 31 MW (estimated) steam turbine generators	Oxidation catalyst	1 ,	PPMVD @ 15%	SS/NO DUCT FIRING	1.7 PF	MVD@15% 02	EXCLUDING SS/DUCT FIRING	0		
							Turbines with Duct Burners and 31 MW (estimated) steam turbine generators TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE										
			2 COMBINED- CYCLE				COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 725 MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG)				3-HOUR BLOCK AVERAGE.			3-HOUR BLOCK AVERAGE,			
			COMBUSTION	NATURAL			EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION	OXIDATION CATALYST AND GOOD		PPMVD @ 15%	EXCLUDING			EXCLUDING			
MD-0041	CPV ST. CHARLES	4/23/2014	TURBINES	GAS	7	25 MEGAWATT	CATALYST	COMBUSTION PRACTICES	1	O2	SU/SD	3.2 lb	hr	SU/SD	0)	
			2 COMBINED				TWO MITSUBISHI ''G'Model Combustion Turbine										
			CYCLE				GENERATORS (CTS) WITH A NOMINAL GENERATING CAPACITY OF 270 MW	USE OF PIPELINE NATURAL GAS,			3-HOUR BLOCK						
	WILDCAT POINT		COMBUSTION TURBINES, WITH				CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS,	GOOD COMBUSTION PRACTICES, AND USE OF AN OXIDATION		PPMVD @ 15%	AVERAGE, EXCLUDING						
MD-0042	GENERATION FACILITY	4/8/2014		GAS	10	00 MW	SELECTIVE CATALYTIC REDUCTION (SCR), OXIDATION CATALYST	CATALYST	1.6	O2 15%	SU/SD	6720 LI	3/EVENT	COLD STARTUP	0	,	
							EACH TURBINE IS EQUIPPED WITH A HEAT RECOVERY STEAM GENERATOR										
			3 COMBUSTION				(HRSG). EACH HRSG IS EQUIPPED WITH A NATURAL GAS FIRED DUCT BURNER (650 MMBTU/H). TOTAL NOMINAL PLAN GENERATING CAPACITY WITHOUT	CATALYTIC OXIDIZER PROVIDES									
			TURBINES AND	NATURAL			DUCT FIRING IS 800 MW. A MAX OUTPUT OF 1100 MW THROUGH	SOME CONTROL FOR									
4I-0366	BERRIEN ENERGY, LLC	4/13/2005	DUCT BURNERS	GAS	15	84 MMBTU/H	SUPPLEMENTAL FIRING OF HRSGS. Throughput is 2,237 MMBTU/H for each CTG	VOCS.	3.2	lb/hr		95.3 T/	YR		0)	
			Natural gas fueled				Equipment is permitted as following flexible group (FG):										
			combined cycle combustion turbine				FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				EACH CTG:						
	MIDLAND COGENERATION		generators (CTG)				to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and a				TEST						
MI-0405	VENTURE	4/23/2013	with HRSG	Natural gas	22	37 MMBTU/H	selective catalytic reduction (SCR) system.	Good combustion practices	0.0018	LB/MMBTU	PROTOCOL	0			0		
							This process is permitted in a flexible group format, identified in the permit as FG-CTG/DB1-2				1						
			Natural gas fueled				and is for two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				1						
			Natural gas fueled combined cycle				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and				1						
			combustion turbine				a selective catalytic reduction (SCR) system. Additionally, the HRSG is operating with a				1						
	MIDLAND COGENERATION		generators (CTG) with HRSG and duct				natural gas fired duct burner for supplemental firing.				TEST						
MI-0405	VENTURE	4/23/2013	burner (DB)	Natural gas	24	86 MMBTU/H	The throughput is 2,486 MMBTU/H for each CTG/DB. Natural gas fired CTG with DB for HRSG; 4 total.	Good combustion practices	0.004	LB/MMBTU	PROTOCOL	0		<u> </u>			
							Natural gas fired CTG with DB for HRSG; 4 total.			1							
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.				1						
											1						
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.				1						
							Permit was issued for either of two F Class turbine technologies with slight variations in				1						
			raaa				emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG				1						
	THETFORD GENERATING		FGCCA or FGCCB- 4 nat. gas fired CTG			MMBTU/H heat input,	trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up	Efficient combustion control plus			1						
MI-0410	STATION	7/25/2013	w/ DB for HRSG	natural gas	25	87 each CTG	to 1.400 MW	catalytic oxidation system.				0			0		
							This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle natural gas- fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSGs)										
			FG-CTGHRSG: 2				equipped with duct burners for supplemental firing (EUCTGHRSG1 & EUCTGHRSG2 in				1						
	HOLLAND BOARD OF		Combined cycle				FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not	L									
	PUBLIC WORKS - EAST 5TH STREET	12/4/2012	CTGs with HRSGs with duct burners	natural ose	_	MMBTU/H for each 47 CTGHRSG	exceed 635 hours per 12-month rolling time period. Each CTGHRSG shall not exceed 647 MMBtwhr on a fuel heat input basis.	Oxidation catalyst technology and good combustion practices.	1 .	PPMVD @ 15%	TEST PROTOCOL						
MI-0412		12402013	2 COMBINED-		1 "		при опе	Zamana procured	T	1-		1					
MI-0412		1	CYCLE	1	1					PPMVD @ 15%	W/O DUCT-			WITH DUCT-			
MI-0412	LICH BRIDGE		COMPLICATION														
MI-0412 4N-0060	HIGH BRIDGE GENERATING PLANT	8/12/2005	COMBUSTION TURBINES	NATURAL GAS ONLY	3	30 MEGAWATTS	EMISSIONS FOR EACH TURBINE.	GOOD COMBUSTION PRACTICES.	,	02	BURNER	13 PF	M @ 15% O2	BURNER FIRING	n		
	GENERATING PLANT NORTHERN STATES	8/12/2005	TURBINES		3	30 MEGAWATTS	EMISSIONS FOR EACH TURBINE.	GOOD COMBUSTION PRACTICES.		02		13 PF	PM @ 15% O2	BURNER FIRING	0		
	GENERATING PLANT	8/12/2005			3	30 MEGAWATTS	EMISSIONS FOR EACH TURBINE.	GOOD COMBUSTION PRACTICES.	2	PPMVD @ 15%		13 PF	PM @ 15% O2	BURNER FIRING	0		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			COMBINED														
			CYCLE														CTG OIL & DB
			COMBUSTION TURBINE	NATURAL			COMBUSTION TURBINE PERMITTED TO USE NG & NO. 2 OIL; DUCT BURNER PERMITTED TO USE NG & NO. 2 OIL. DUCT BURNER ALSO AUTHORIZED TO			PPMVD @ 15%				CTG NG & DB			NOT OPERATE OR DB NG OR
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	W/DUCT BURNER		1758	MMBTU/H	COMBUST LIQUID BIOFUEL.		1.	5 02	CTG NG NO DB	3	PPMVD	NG OR OIL	3.	5 PPMVD	OIL
			TURBINE & amp; DUCT BURNER,														
			COMBINED CYCLE, NAT GAS				Each of these units have a natural gas-fired HRSG & a natural gas fired duct burner. Limits for this process	GOOD COMBUSTION PRACTICES AND EFFICIENT PROCESS		nni am o isa							
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	5 3	GAS	1844.3	MMBTU/H	natural gas fired duct burner. Limits for this process are for turbines and duct burners.	DESIGN PROCESS	5.	PPMVD @ 15% 7 O2		0				0	
			TURBINE, COMBINED	NATURAL				CO OXIDATION CATALYST AND		PPMVD @ 15%	AVERAGE OF 3 TESTS-EACH 60						
NJ-0074	WEST DEPTFORD ENERGY	5/6/2009	CYCLE COMBINED	GAS	17298	MMFT3/YR		GOOD COMBUSTION PRACTICES	1.	9 02	MIN	0)			0	
			CYCLE				Natural Gas Usage <= 33,691 MMft^3/yr										
	DODG DOGGE II G		COMBUSTION				per 365 consecutive day period, rolling one	0.11.5			ALTERA OF OF						
	PSEG FOSSIL LLC SEWAREN GENERATING		TURBINE WITH DUCT BURNER -			MMCUBIC FT PER	day basis (per two Siemens turbines and two associated duct burners) The heat input rate of the Siemens turbine will be 2,356 MMBtu/hr(HHV) with a 62.1 duct	Oxidation catalyst and pollution prevention (use of natural gas a clean		PPMVD @ 15%	AVERAGE OF THREE ONE			AVERAGE OF THREE ONE			
*NJ-0081	STATION	3/7/2014	4 SIEMENS COMBINED	Natural Gas	33691	YEAR	burner MMBtwhr(HHV).	burning fuel)		2 02	HOUR TESTS	6.6	lb/hr	HOUR TESTS		0	
			CYCLE				Natural Gas Usage <= 33,691 MMft^3/yr										
			COMBUSTION TURBINE WITH				per 365 consecutive day period, rolling one day basis (per two turbines and two duct										
	PSEG FOSSIL LLC		DUCT BURNER -				burners)	CO Oxidation Catalyst and good			AVERAGE OF			AVERAGE OF			
*NJ-0081	SEWAREN GENERATING STATION	3/7/201/	GENERAL 4 ELECTRIC	Natural gas	22601	MMCUF/vear.	The heat input rate of each General Electric combustion each turbine will be 2,312 MMBtu/hr(HHV) with a 164.4 MMBtu/hr duct burner	combustion practices and use natural gas only as a clean burning fuel	l .	PPMVD @ 15%	THREE ONE HOUR TESTS	7.2	llb/be	THREE ONE HOUR TESTS		0	
-NJ-0081	SIATION	3///201*	+ ELECTRIC	Naturai gas	33691	MINICUP/year.	This is a 427 MW Siemens Combined Cycle Turbine with duct burner	only as a clean burning fuer		2 02	HOUR TESTS	1.2	10/nr	HOUR TESTS		0	
1]	Combined Cycle	1			Heat Input rate of the turbine = 2276 MMbtu/hr (HHV) Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)				AVERAGE OF			AVERAGE OF			
	WEST DEPTFORD ENERGY		Combustion Turbine					Oxidation catalyst and use of natural gas		1	THREE STACK			THREE STACK			
*NJ-0082	STATION	7/18/2014	with Duct Burner	Natural Gas	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners. THE FACILITY CONSISTS OF 3 WESTINGHOUSE MODEL 501G GAS COMBINED	a clean burning fuel		1 PPMVD@15%O2	TEST RUNS	4	lb/hr	TEST RUNS		0	
							CYCLE TURBINES (245 MW BASE LOAD), HEAT RECOVERY STEAM GENERATORS, AND STEAM TURBINE GENERATORS (115 MW) WITH SELECTIVE.										
			FUEL				CATYALYTIC REDUCTION (SCR.) FOR NOX EMISSION CONTROL. NOX EMISSIONS				3 HOUR BLOCK			3 HOUR BLOCK			3 HOUR BLOCK
L	ATHENS GENERATING		COMBUSTION	NATURAL			FROM THE TURBINES ARE ADDITIONALLY CONTROLLED BY AMMONIUM HYDROXIDE INJECTION.			PPMVD @ 15%	AVERAGE/			AVERAGE/		PPMVD @ 15%	AVERAGE/
NY-0098	PLANT	1/19/2007	FUEL	GAS	3100	MMBTU/H	HYDROXIDE INJECTION.	GOOD COMBUSTION CONTROL	<u> </u>	4 02	STEADY STATE	16.8	lb/hr	STEADY STATE		4 02	STEADY STATE
NY-0100	EMPIRE POWER PLANT	6/23/2005	COMBUSTION (NATURAL GAS)	NATURAL GAS	2000	MMBTU/H		OXIDATION CATALYST		PPMVD @ 15%	AS PER EPA METHOD 25A	l ,	PPMVD AT 15%	AS PER EPA METHOD 25A			
N1-0100	EMPIRETOWERTEAN	0/23/200.	FUEL	UAS	2093	SIMBTO/II		OAIDATION CATALTST		1 02	METHOD 23A		02	METHOD 23A		0	
			COMBUSTION (NATURAL GAS)	NATURAL						PPMVD @ 15%	AS PER EPA		PPMDV AT 15 %	AS PER EPA			
NY-0100	EMPIRE POWER PLANT	6/23/2005	DUCT BURNING		646	MMBTU/H		OXIDATION CATALYST		7 02	METHOD 25A	7	02	METHOD 25A		0	
			2 Combined Cycle				Two Siemens 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2										
			Combustion				Siemens or 2Mitsubishi, not both (not determined).										
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Turbines-Siemens, with duct burners	Natural Gas	51560	MMSCF/rolling 12-MO	Short term limits are different with and without duct burners. This process with duct burners. Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300	oxidation catalyst	5.	9 lb/hr		28.6	T/YR	PER ROLLING 1: MONTHS	1.	9 PPM	PPMVD AT 15% O2
			2 Combined Cycle				Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
			Combustion				install either 2 Siemens or 2Mitsubishi, not both (not determined).										
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Turbines-Mitsubishi, with duct burners	, Natural Gas	47017	MMCCE IE 12 MO	Short term limits are different with and without duct burners. This process with duct burners.	oxidation catalyst		2 11-11-			TAID	PER ROLLING 1: MONTHS	2-	2 DDM	PPMVD AT 15%
*On-0332	CENTER	6/18/2013		Naturai Gas	4/91/	MMSCF/folling 12-MO	Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	oxidation catalyst	· /-	3 libriir		30	1/1K	MONTHS		2 FFM	.02
	DUKE ENERGY HANGING		Turbines (4) (model GE 7FA) Duct	NATURAL			These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct							PER ROLLING 1:	,		
*OH-0356	ROCK ENERGY	12/18/2012	2 Burners On COMBINED	GAS	172	MW	burners.	Using efficient combustion technology	7.	3 lb/hr		44.1	T/YR	MONTHS		0	
			CYCLE														
l			COGENERATION >:25MW	NATURAL				GOOD COMBUSTION	l .	PPMVD @ 15%	3-HR AVG @	5 27		3-HR AVG @			
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	COMBUSTION	GAS	1882	MMBTU/H	SIEMENS V84.3A	GOOD COMBUSTION	0.	3 02	15% O2	5.27	lb/hr	15% O2		0	
			TURBINE & amp; HEAT RECOVERY	,			GE 7241FA TURBINE AND DUCT BURNER.										
			STEAM	NATURAL			COMBUSTION TURBINE - 1,778.5 MMBTU/HR				SEE POLUTANT						
OR-0041	WANAPA ENERGY CENTER	8/8/2005	GENERATOR	GAS	2384.1	MMBTU/H	DUCT BURNER - 605.6 MMBTU/HR	OXIDATION CATALYST	-	0	NOTE	0)			0	-
1			Mitsubishi M501-	1													
			GAC combustion turbine, combined							1	3-HR ROLLING			3-HR ROLLING			
	TROUTDALE ENERGY		cycle configuration	l .				Oxidation catalyst;		PPMVD @ 15%	AVERAGE ON		PPMDV AT 15%	AVERAGE ON			
*OR-0050	CENTER, LLC	3/5/2014	with duct burner.	natural gs	2988	MMBtu/hr	or ULSD; Duct burner 499 MMBtu/hr, natural gas	Limit the time in startup or shutdown.		2102	INCI	5	02	ULSD	+	U.	
			Combined-cycle				Two combine cycle Turbines, each with a combustion turbine and heat recovery steam generator with duct burner. Each combined-cycle process will be rated at 468 MW or less.			1							
	MOXIE LIBERTY		Turbines (2) -				The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the			PPMVD @ 15%	WITHOUT DUCT	-		WITH DUCT			
PA-0278	LLC/ASYLUM POWER PL T MOXIE ENERGY	10/10/2012	Natural gas fired Combined Cycle	Natural Gas	3277	MMBTU/H	heat input rating of each supplemental duct burner is equal to 387 MMBtu/hr (HHV) or less.	Oxidation Catalyst	-	1 02	BURNER	1.5	PPMVD	BURNER	+	0	
L	LLC/PATRIOT		Power Blocks 472	L.			Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a	L		PPMVD @ 15%	WITHOUT DUCT			WITH DUCT			
*PA-0286	GENERATION PLT	1/31/2013	3 MW - (2)	Natural Gas	+ (1	combustion turbine and heat recovery steam generator with duct burner.	CO Catalyst		1102	BURNER	1.5	PPMDV	BURNER	33.	8 T/YR	EACH UNIT
			Combined Cycle Combustion Turbine				Three powerblocks consisting of three (3) natural gas fired F class combustion turbines coupled			1	3 lb/hr, DUCT BURN NOT			10.8 LB/HR, DUCT BURN			
	SUNBURY GENERATION		AND DUCT				with three (3) heat recovery steam generators (HSRGs) equipped			PPMVD@15%	OPERATING,			OPERATING,			
*PA-0288	LP/SUNBURY SES	4/1/2013	BURNER (3)	Natural Gas	2538000	MMBTU/H	with natural gas fired duct burners. The Permittee shall select and install any of the turbine options listed below (or newer versions	Oxidation Catalyst		1 02	15% O2	3.9	PPM	15% O2	1	0	
1				1			of these turbines if the										
1				1			Department determines that such newer versions achieve equivalent or better emissions rates and exhaust parameters)										
							1. General Electric 7FA (GE 7FA)			1							
			COMBINED	1			Siemens SGT6-5000F (Siemens F) Mitsubishi M501G (Mitsubishi G)				WITH OR			INCLUDING			
	HICKORY RUN ENERGY		CYCLE UNITS #1				4. Siemens SGT6-8000H (Siemens H)			PPMVD @ 15%	WITHOUT DUCT	1	TPY 12-MONTH	STARTUP AND			
*PA-0291	STATION	4/23/2013	3 and #2	Natural Gas	3.4	MMCF/HR	The emissions listed are for the Siemens SGT6-8000H unit.	Oxidation Catalyst	1.	5 02	BURNER 12-MONTH	93.44	ROLLING	SHUTDOWN	1	0	-
	BERKS HOLLOW ENERGY		Turbine, Combined							1	ROLLING		PPMVD @ 15%				
PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	3 Cycle, #1 and #2	Natural Gas	3046	MMBtu/hr	Equipped with SCR and Oxidation Catalyst		93.8	5 T/YR	TOTAL	1.9	002	1		0	1

RBLCID	FACILITY NAME	PERMIT ISSUANCE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	DDOCES NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
RBLCID	FACILII I NAME	DATE	Turbine, COMBINED	FUEL	Inkoughrui	THROUGHFUT UNIT	FROCESS NOTES	DESCRIPTION	LIMIT	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	ON A 12-MONTH
*PA-0298	FUTURE POWER PA/GOOD SPRINGS NGCC FACILITY	3/4/2014	CYCLE UNIT (Siemens 5000)	Natural Gas	2267	MMBtu/hr		CO Catalyst		PPMVD @ 15% O2	@ 15% OXYGEN		7.4 lb/hr	WITH DUCT BURNER	34.	TPY	ROLLING TOTAL
			COGENERATION TRAIN 2 AND 3 (TURBINE AND				GREEN POWER ONE WILL CONSIST OF TWO NOMINALLY RATED 35 MW GAS FRIED TURBINES AND TWO HEAT RECOVERY STEAM GENERATORS, EQUIPPED WITH 312 MINISTURE DUCT BURNERS. HE COMBUSTION TURBINES WILL ONLY BURN PIPELINE O'QUALITY SWEET NATURAL CAS. THE DUCT BURNES WILL ONLY BURN PIPELINE O'QUALITY SWEET NATURAL CAS. THE DUCT BURNES WAS AND COMPLEX GAS. STEAM PRODUCE DID THE BERSO WILL BE USED IN THE CHOCLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROXIMATELY HALF OF THE ELECTRICAL OUTPUT PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINES WILL BE SOLD TO THE GROW.	BP AMOCO PROPOSES PROPER COMBUSTION CONTROL AS BACT FOR CO AND VOC EMISSIONS									
TX-0497	INEOS CHOCOLATE BAYOU FACILITY	8/29/2006	DUCT BURNER EMISSIONS)	NATURAL GAS	35	MW	THE EMISSIONS ARE PER TRAIN.	FROM THE TURBINES AND DUCT BURNERS.	6.14	lb/hr		40	.88 T/YR)	
TX-0502	NACOGDOCHES POWER STERNE GENERATING FACILITY		WESTINGHOUSE/ SIEMENS MODEI SW501F GAS TURBINE W/416: MMBTU DUCT BURNERS	S NATURAL GAS	190			BURNERS. STEAD FOWER LLC REPRESENTS GOOD COMBUSTION PRACTICES FOR THE CONTROL OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE COMBUSTION TURBINES AND DUCT FREED HRSG. VOC EMISSIONS FROM THE COMBUSTION TURBINE WILL BE 43 PPMVD	133	lbbr			2.8 T/YR				
170002	CITY PUBLIC SERVICE JK SPRUCE ELECTRICE	0/3/2000	SPRUCE POWER GENERATOR	U/LD	1,50			3.2.1.11.12	15.0	TO IN			2.0 1711			,	
TX-0516	GENERATING UNIT 2	12/28/2005	UNIT NO 2	-			EACH TURRINE/HRSG WILL BE DESIGNED TO OUTPUT 350 MW. TURRINES		29	lb/hr			88 T/YR		1)	
TV 0546	PATTILLO BRANCH	6477000	ELECTRICITY GENERATION	NATURAL	250	. my	BEING CONSIDERED FOR THE PROJECT ARE GE 7FA, GE 7FB, AND SIEMENS SGT6		l .	PPMVD @ 15%	@ 15% O2, 3-HR						
TX-0546	POWER PLANT NATURAL GAS-FIRED POWER GENERATION FACILITY		ELECTRICITY GENERATION	NATURAL GAS	350		SOODE. LUMMAR PUWER PARTINERS PROPOSES TO CONSTRUCT A NATURAL GAS-FIRED COMBINED-CYCLE POWER BLOCK TO BE BUILT AT THE EXISTING SITE IN LAMAR COUNTY, TEXAS. THE NEW POWER BLOCK WILL BE CAPABLE OF PRODUCING EITHER 6:20 OR 910 MEGAWATTS OF ELECTRICITY, DEPENDING UNOW WHICH COMBUSTION TURBINE MODEL OFFION IS CHOSEN. THE PROPOSED PROJECT WOULD INCLUDE TWO COMBUSTION TURBINES (EITHER 170 MW GENERAL ELECTRIC TAS OR 2:50 MW MISTURBINES (EITHER RECOVERY STEAM GENERATORS WITH DUCT BURNERS AND ONE STEAM TURBINE. THE GETFAS WOULD BE CAPABLE OF PRODUCING 6:20 MW OF ELECTRICITY IN COMBINED CYCLE MODE, WHILE THE M501GS WOULD PRODUCE OF THE OWN OF COMBINED CYCLE MODE.	OXIDATION CATALYST GOOD COMBUSTION PRACTICES		PPMVD @ 15%	ROLLING AVG @ 15% O2, 24-HI ROLLING AVG	t.	0				
12-0347	PACIENT	0/22/2005	GENERATION	UAS	230	aiw	FOUR GE PG7121(EA) COMBINE CYCLE TURBINES FIRING NATURAL GAS WILL	GOOD COMBUSTION TRACTICES		02	ROLLING AVG					,	\vdash
TX-0548	MADISON BELL ENERGY CENTER	8/18/2005	ELECTRICITY GENERATION	NATURAL GAS	275	MW	DRECTLY GENERATE 78 MW. EACH HAS A 165 MMBTUHR DUCT BURNER AND HEAT RECOVERY STEAM GENERATOR. TWO HEAGA, WILL TURN ONE 125 MW STEAM TURBNE AND THE OTHER TWO WILL TURN ANOTHER 125 MW STEAM TURBNE. THE TURBNE WAY OPERATE WITHOUT THE DUCT BURNER. The plant will be designed to generate 1,350 normain megawatts of power. There are two configurations exercise either four Stemes SQTE-5000F CTG in combined-cycle mode	GOOD COMBUSTION PRACTICES	2.:	PPMVD @ 15% O2	@ 15% O2, 1-HR ROLLING AVG THREE-HOUR		0			D	
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural gas	1350	MW	(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B also includes one or two auxiliary boilers.	DLN burners in combination with an oxidation catalyst	1.	PPMVD @ 15%	ROLLING AVERAGE		0				
TX-0600	THOMAS C. FERGUSON POWER PLANT CHANNEL ENERGY	9/1/2011	Natural gas-fired	natural gas	390		(2) GE7FA at 195 MW each, (1) steam turbine at 200 MW. Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which provides steam for the steam turbine. The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a	Natural gas, good combustion practices and oxidation catalyst		PPMVD @ 15% O2 PPMVD @ 15%	3-HR AT 15% OXYGEN		0)	
TX-0618	CENTER LLC	10/15/2012		natural gas	180	MW	maximum design heat input of 475 MMBru/hr. natural gas-fired combined cycle turbine generator with a heat recovery steam generator	Good combustion	-	02	@15% O2		0		-)	
	DEER PARK ENERGY		Combined Cycle				equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts			PPMVD @ 15%							
TX-0619	CENTER CENTER	9/26/2012	Turbine Cycle	natural gas	180	MW	and the DB will have a maximum design rate capability of 725 million British thermal units per hour	good combustion, use of natural gas		O2 15%	@15% O2		0)	!
*TX-0641	PINECREST ENERGY CENTER	11/12/2013	combined cycle turbine	natural gas	700	MW	The generating equipment consists of two natural gas-fired combustion turbines (CTA), each calculating to a first best recovery seam generator (IRBSO) to produce steam to drive a shared steam turbine generator. The steam turbine is nated at 271 MW of electric output. Three models of combustion turbines are bring considered for this site: the General Electric TPA 05, the Siemens SCTG-5000F(3), and the Siemens SCTG-5000F(5). The final selection of the combustion turbine will not be made until after the permit is issued. Plaint output will range between 637 and 735 MW, depending on the model turbine selected. Dust Burners are rated at 750 MMBuff texth.	oxidation catalyst		PPMVD @ 15% O2	INITIAL STACK TEST, 15% OXYGEN CORRECTED TO		0			0	
	FGE TEXAS POWER I AND						Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity 409	Oxidation catalyst, good combustion		PPMVD @ 15%	15% O2, ROLLING 3 HR						
*TX-0660	FGE TEXAS POWER I AND	3/24/2014	Alstom Turbine	Natural Gas	230.7	MW	Four (4) Alstom G124 C1Gs, each with a HRSG and DBs, max design capacity 409 MMBtu/hr	practices good combustion	-	02	AVE AVE		0			0	
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY	7/16/2014	Combustion Turbing	natural gas	87	MW	The exhaust heat from the turbine will be used to heat a heating medium which is used to regenerate rich amine from the acid gas removal system.	oxidation catalyst		PPMVD @ 15%	1 HOUR BASED ON STACK TEST		0				
1A-90/8	I KLISENI PACILITY	7/16/2014	Compussion 3 diffund	naturai gas	8/	772 YY	rescentifier from anime from ma seed gas removal system. The specific equipment includes two combustion turbines (CTs) connected to electric generators, producing between 183 and 232 MW of electricity, depending on ambient temperature and the selected CT. The two IRFGS us due that burners rated at 750 MMBushr each to supplement the heat energy from the CTs. The steam from the two IRFGS is combined and roated to a single steam turbine driving a thrid electric generator with an electricity output capacity of 271 MW. Depending on the selected CT, total plant output at 59ŰF is between 637 MW and 735 MW. The applicant is considering three models of CT; one model will be selected and the permit	tonamed CHITYS		V2	ON STACK TES!		v				
*TV 0700	LA PALOMA ENERGY		(2) combined cycle			MW	revised to reflect the selection before construction begins. The three CT models are: (1)		.	PPMVD @ 15%	@15% O2, 3-HR						
*TX-0708	CENTER SAND HILL ENERGY	2///2013	Natural gas-fired	natural gas	650	IVI W	General Electric 7FA.04; (2) Siemens SGT6-5000F(4); or (3) Siemens SGT6-5000F(5).	oxidation catalyst	† ·	O2 PPMVD @ 15%	ROLLING		U		<u> </u>	,	+
*TX-0709	SAND HILL ENERGY CENTER	9/13/2013	combined cycle turbines	Natural Gas	173.9	MW	General Electric 7FA.04 at 197 MW nominal ouput. The duet burners will be capable of a maximum natural gas firing rate of up to 485 MMBtu/hr (HHV). The duet burners may be food delitting the burner is recommended to the property of 1275.			O2 15%	1HR. AVG.		0		-)	
*TX-0710	VICTORIA POWER STATION	12/1/2014	combined cycle turbine	natural gas	197	MW	fired additional hours; however, total annual firing will not exceed the equivalent of 4,375 hours at maximum capacity per duct burner. The available capacity of the existing steam turbine will be increased from 125 MW in its existing 1x1x1 configuration to approximately 185 MW in the 2x2x1 configuration.	oxidation catalyst		PPMVD @ 15% O2	@15% O2, 3-HR ROLLING AVERAGE		0)	

Miles	$\overline{}$				1					1		1		1				
The content of the	.CID F			PROCESS NAME		THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES			UNIT			UNIT			UNIT	AVG TIME CONDITION
Management Man	$\overline{}$					İ		The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion		i i						İ		Ť
Manual Property of the Community of th	TI -0712 F	RINIDAD GENERATING ACILITY	11/20/2014	combined cycle turbine	natural gas	497	MW	maximum design capacity of 402 million British thermal units per hour (MMBtu/hr). The	oxidation catalyst	4	PPMVD @ 15% O2	@15% O2 1-HR	0					
March Marc								Each CTG is site-rated at 274 MW gross electric output at 62ŰF ambient temperature. At										
March Marc								this condition, two HRSGs with full duct burner firing produce enough steam to generate an										
Part Part	Т	ENASKA BROWNSVILLE		(2) combined cycle			l	electric output. Under summertime conditions, the net output is approximately 800 MW with		l .	PPMVD @ 15%	@15% O2, 3-HR						
Procedure of the control of the co	-0713 G	ENERATING STATION	4/29/2014	turbines	natural gas	274	MW	the 2x1 CCGT configuration or about 400 MW with the 1x1 CCGT configuration. The gas turbines will be one of three options:	oxidation catalyst	2	02	AVERAGE	0			-		+
March Marc								(1) Two Siemens Model F5 (SF5) CTGs each rated at nominal capability of 225 megawatts										
A TATE OF STATE								(MW). Each CTG will have a duct fired HRSG with a maximum heat input of 688 million British thermal units per hour (MMBtu/hr)										
March Marc																		
March Marc								(2) Two General Electric Model /FA (GE/FA) CTGs each rated at nominal capability of 215 MW. Each CTG will have a duet fired HRSG with a maximum heat input of 523 MMBtu/hr.										
Commonweal Com								(2) Two Mitsubishi Hasay Industry G Emma (MUISOIG) CTGs and rotad at a nominal										
March Marc	s	R BERTRON ELECTRIC		(2) combined cycle				electric output of 263 MW. Each CTG will have a duct fired HRSG with a maximum heat			PPMVD @ 15%							
1989			12/19/2014	Combined-cycle gas	natural gas	240	MW		oxidation catalyst	1	02	@15% O2	0			-		+
Marked M	-0730 C	OLORADO BEND ENERGY ENTER	4/1/2015	turbine electric generating facility	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	SCR and oxidation catalyst	4	PPMVD @ 15% O2	3-HR AVERAGE	0					
MAIN CASE MATERIAL 1985				Combined Cycle				Two norms configuration entions authorized										
Part Part	E	AGLE MOUNTAIN STEAM						Siemens â€" 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner										
M. CELLYOUR 1	-0751 EI	LECTRIC STATION	6/18/2015	gas	natural gas	210	MW		Oxidation catalyst	2	PPM		0			-		+
MINING M	I.	ON C. HILL POWER		Combined Cycle Turbines (&et:25				Two power configuration options authorized Sigmens &f** 240 MW ± 250 million British thermal units per hour (MMBtu/hr) duct burner			PPMVD@ 15%							
MERICONSTYPHONE WILLIAM CONTROLL WILLIAM CONTR			10/2/2015	MW)	natural gas	195	MW	GE – 195 MW + 670 MMBtu/hr duct burner	oxidation catalyst	2	02	2 III 4110	0		A FIRE A TAG	(
Market M				CYCLE TURBINE								(WITHOUT			(WITH DUCT			
BOUNDER COOKEY 1985 1985	.0315 P	VARREN COUNTY POWER LANT - DOMINION	12/17/2010	& DUCT BURNER 3	Natural Gas	2996	MMRTU/H	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)		2.6	lb/hr	DUCT BURNER FIRING)	61	lb/hr	BURNER FIRING)			
9.000 PARTAINS 19200				COMBUSTION							DDM//D @ 150/	3 H	-	DDM(V/D @ 149/				
Part Part			3/12/2013		Natural Gas	3442	MMBTU/H	Inree (3) Mitsubishi M501 GAC combustion turbine generators with HKSG duct burners (natural gas-fired).	practices.	0.7	O2 15%		1.6	O2 02	3 H AVG/WITH	(
NAMES OF CHEST NOT STAND (NEEDLY COUNTY				GE 7FA COMBUSTION														
December No. Process				TURBINE & amp;				THREE INCIDENTICAL CT & HODG UNITS FACIL CT WILL HAVE AN ANNUAL										
No. NO.NO.NELE COMBINED Condessed Cycle Co				STEAM	NATURAL			AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER										
Windows Content Cont	0328 C	OGENERATION PROJECT	1/11/2005	GENERATOR	GAS	174	MW	WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR. This entry is for both of two identical units at the facility.	OXIDATION CATALYST	0			0			(*SEE NOTES
Windows Content Cont		OUNDSVILLE COMBINED		Combined Cuele				Naminal 107 mW/ Canand Electric Frame 7FA 04 Turking m/ Dust Durage throughout	Oxidation Catalant & Good Combustion									
MINISTATION \$2,932 Testes (1991) Name (2n) 100 1	V-0025 C	YCLE POWER PLANT	11/21/2014	Turbine/Duct Burner	Natural Gas	2419.61	mmBtu/Hr	denotes aggregate heat input of turbine and duct burner (HHV).		5.3	lb/hr		0.0022	LB/MMBTU		2	PPM	@ 15% O2
Material Traing 14 Confection Tables Name Grow 100 New York 10			8/28/2012	Combined Cycle Turbine (EP01)	Natural Gas	40	MW		Oxidation Catalyst	3	PPMVD @ 15% O2	1-HOUR	3	lb/hr		14.7	T/YR	
Propose Development Labor Labor Condesided Tubbos Condesided Tubbos Named Cost Labor						1000	MW		Low NOv Burners	0.003	lls/MMRtu	1-hr average; Duct	5.92	llb/hr	1-hr average; Duc	t		
Popular Power Scient Inflates Popular Power Scient Inflate	Fe	ootprint Power Salem Harbor								0.000		1-hr average; Duct			1-hr average; Duc	t		
Cocket Valver Energy Center Combestion Tables Neural Gas 100 MeV Combestion Canalyse Combestion Tables Neural Gas 100 MeV Combestion Tab	Fe	ootprint Power Salem Harbor								5.4	PPMVD @ 15%	1-hr average; Duct			1-hr average; Duc	t		+
Cristed Valler Farrory Center Combustin Tubble Natural Gas 1000 MW Outdoor Cambre 2 C	D	Nevelopment LP		Combustion Turbine	Natural Gas	346	MW		Low NOx Burners	1.7	O2 PPMVD @ 15%	Burners On 1-hr average: Duct	0.016	lb/MW-hr	Burners On			+
Efficiency Center Combostic Turbon Name of	C	ricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW		Oxidation Catalyst	2	02	Burners On						
Hardgor Constraint, LEC	E	ffingham County Power		Combustion Turbine	Natural Gas	180	MW		Oxidation Catalyst	2	O2	Burners On						
Hearingon Boach Energy Combustion Turbine Com	Н	lawkeye Generating, LLC		Combustion Turbine	Natural Gas					0.0038		Burners On						
Non-New Reserve Center Contention Turbus Natural Gas Contention Turbus Natural Gas 227 Millious Contention Turbus Natural Gas 228 Millious Contention Turbus Natural Gas 228 Millious Contention Turbus Natural Gas 229 Millious Contention Turbus Natural Gas 229 Millious Contention Turbus Natural Gas 229 Millious Contention Turbus Natural Gas 220 Milliou	H	luntington Beach Energy		Combustion Turbine	Natural Gas	939	MW				PPMVD @ 15%	3-hr average; Duct						
Hea Newark Energy Center Combustion Turbins Natural Gas 224 M/Blurby Combustion Turbins Natural Gas 150 M/W Combustion Turbins Natural Gas 150 M/W Combustion Turbins Natural Gas 160 M/W Combustion Turbins Natural Gas		ioject		Constanton rutonic	Tutulai Cas	/3/					DELLE COLON	Avg of 3 stack test						
Salama Energy Center Combustion Turbine Natural Gas 2247 MMBsturbr Oxidation Catalysta 1/2 1/2 more reling	Н	less Newark Energy Center		Combustion Turbine	Natural Gas					2	02	On						
Ralams Energy Center LLC	к	alama Energy Center		Combustion Turbine	Natural Gas	2247	MMBtu/hr		Oxidation Catalyst		PPMVD @ 15% O2	1-hr average	3.2	lb/hr	1-hr average		<u></u>	
Lawrence Energy Center LLC										470	tny							
Lawrence Energy Center LLC									- Cumya		II A O ODe			D.A.,				T
Lawrence Energy Center LLC Combustion Turbins Natural Gas Lawrence Energy													4.2	10/HF	1			+
Lawrence Energy Center LLC Combustion Turbins Natural Gas 180 MW	L	awrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW						4.2	lb/hr			-	+
Lawrence Energy Center LLC	L	awrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW			0.0375	lb/MMBtu				1			+
Lawrence Encopy Center LLC Combustion Turbins Natural Gas 180 MW	L	awrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW			0.015	lb/MMBtu							
Lawrence Energy Center LLC Combustion Turbins Natural Gas 180 MW	L	awrence Energy Center LLC		Combustion Turbine	Natural Gas	180	MW			0.0105	lb/MMBtu		30.7	lb/hr				
GenCom Middle(own LLC Combustion Turbins Natural Gas						180	MW			0.00517	lb/MMBtu		30.7	lb/hr				
PRIVICE Privity (@ 15% 14.1 16/2 1													50.7					
Sevier Power Company Power Plant Combustion Turbine Natural Gas FOUR (4) NATURAL GAS FOUR (4) NATURAL GAS COMBNED COMBNED COMBNED CYCLE EMISSION'S CONTROLLED BY VISITEM (SCR#) ALONG WITH CO AND VOC EMISSION'S CONTROLLED BY STEEM (SCR#) ALONG WITH CO AND VOC EMISSION'S CONTROLLED BY STEEM (SCR#) ALONG WITH CO AND VOC EMISSION'S CONTROLLED BY STEEM (SCR#) ALONG WITH CO AND VOC EMISSION'S CONTROLLED BY STEEM (SCR#) ALONG WITH CO AND VOC EMISSION'S CONTROLLED BY STEEM (SCR#) ALONG WITH CO AND VOC EMISSION'S CONTROLLED BY STEEM (SCR#) ALONG WITH CO AND VOC											PPMVD @ 15%							+
Plant Combustion Turbine Natural Gas 580 MW	Pa S	acitiCorp Energy evier Power Company Power								2.8		3-hour	14.1	lb/hr				+
FOUR (4) NATURAL GAS NATURAL GAS COMBNED CYCLE EMISSION'S CONTROLLED BY OXIDATION CATALYST SYSTEMS (GATHE) IN CYCLE EMISSION'S CONTROLLED BY OXIDATION CATALYST SYSTEMS (GATHE) IN CYCLE MISSION'S CONTROLLED BY OXIDATION CATALYST SYSTEMS (GATHE) IN	PI	lant		Combustion Turbine	Natural Gas	580	MW	EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS. NATURAL GAS		3	02	3-hr average			1			+
COMBNED CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC CYCLE EMISSION'S CONTROLLED BY OXIDATION CATALYTS SYSTEMS (CAT##) IN				FOUR (4)				FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR										
CYCLE EMISSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN				COMBINED				CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC										
I IST, JOSEPH ENEURY I COMBUSTION INATURAL IEACH TURBINE, EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR 1 I IPPMVD (d) 15% I	9	T. JOSEPH ENEGRY		CYCLE COMBUSTION	NATURAL			EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR			PPMVD @ 15%							
GENERAL COMBONS AND EACH ENGINEER DESCRIPTION OF THE PROPERTY					GAS	2300	MMBTU/H		OXIDIZED CATALYST	2	02	3 HOURS						

						1				1		1	_		1		
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			COMBINED		I				1		3 HR AVERAGE						$\overline{}$
			CYCLE TURBINE								(WITH DUCT						
	WARREN COUNTY POWER		& DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Oxidation catalyst and good combustion			BURNER						
	PLANT - DOMINION		BURNER, 3	Natural Gas	29	96 MMBTU/H	generator, Model M501 GAC).	practices.	1.6	O2	FIRING)						
	CPV Valley Energy Center									PPMVD @ 15%							
	Wawayanda, NY			Natural Gas	6	30 MW			0.7	02	1-hr average						
	CPV Valley Energy Center									PPMVD @ 15%							
	Wawayanda, NY		Combustion Turbine	Natural Gas	6	30 MW			1.8	O2	1-hr average						
	Woodbridge Energy Center					07 100 1			l .	PPMVD @ 15% O2							
	(CPV Shore, LLC)		Combustion Turbine	Natural Gas	2,8	07 MMBtu/hr			2	PPMVD @ 15%							
	Woodbridge Energy Center (CPV Shore, LLC)					07 MMBtu/hr			Ι .	PPMVD @ 15%							
	(CPV Shore, LLC)			Natural Gas	2,3	0 / MMBtu/hr			 	02							
			COMBINED HEAT														
	1		AND POWER										1				
	1		DUAL-FIRED										1				
	PA STATE UNIV/UNIV		COMBUSTION							PPMVD@15%							
	PARK CAMPUS		TURBINE	Natural Gas	86	29 MMBtu/hr			10.8								
	TARK CAMI OS		TORDINE	Ivaturai Gas	80.	2.9 MINIDIUM			10.0	PPMVD @ 15%							
	Hummel Station LLC		Combustion Turbine	Natural Gas	2 254	00 MMBtu/hr			3.9	02		10	7 lb/hr				
	Transport Station Edit		Companion raiding	- tuturur Ous	2,2,71	oo maadaan				PPMVD @ 15%		10.	, 10.11				
	Hummel Station LLC		Combustion Turbine	Natural Gas	2.254	00 MMBtu/hr			1	02			3 lb/hr				
										PPMVD @ 15%							
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	31	47 MMBtu/hr			2.4	02							
										PPMVD @ 15%							
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	31	47 MMBtu/hr			1.4	02							
	UGI Development Co/ Hunlock									PPMVD @ 15%							
	Creek			Natural Gas	47	.2 MMBtu/hr			1.2	O2	>32 °F						
	UGI Development Co/ Hunlock									PPMVD @ 15%							
	Creek			Natural Gas	47	.2 MMBtu/hr			4	O2	<32 °F						
	Hawkeye Generating, LLC			Natural Gas		15 MW			0.0038	lb/MMBtu		54.1					
	Hawkeye Generating, LLC			Natural Gas	- 6	15 MW			0.0016	lb/MMBtu		54.1	6 tpy				
	Huntington Beach Energy									PPMVD @ 15%							
	Project			Natural Gas	9	39 MW (net)			1	O2 PPMVD @ 15%	1-hr rolling						
	Huntington Beach Energy Project			l		39 MW (net)			l .	PPMVD @ 15%	3-hr rolling						
	Project			Natural Gas	,	39 MW (net)			-	PPMVD @ 15%	5-hr rolling						
	Hess Newark Energy Center		Combustion Turbine	Natural Con-		20 MMBtu/hr			l ,	m vD @ 1576		0.00	l lb/MMBtu				
	ness Newark Energy Center		Compustion Turbine	Naturai Gas	- 23	20 MINIDIWIII			+ '	PPMVD @ 15%		0.00	1 ID/MMDtu				
	Hess Newark Energy Center		Combustion Turbine	Natural Gas	1 22	66 MMBtu/hr			,	O2	1	0.002	5 lb/MMBtu	1		l	1
	THE STREET, ST		Companion ruibine	runnii Gas		OV MINISTERIE			 	-	3-hour block	0.002	January 111111111111111111111111111111111111				+
	1									PPMVD @ 15%	average; average of	f	1				
	York Energy Center Block 2	6/15/2015	s	1	2513	2.5 MMBtu/hr	firing NG with duct burner	1	1 9	02	3 test runs	1				l	1
	Shell Chemical	0/13/2013			1 200				T				1				1
	Appalachia/Petrochemicals									PPMVD @ 15%			1				
	Complex	6/18/2015	5		6	64 MMBtu/hr	each of the combustion turbines with duct burners		1	02	1-hour average						
	Calpine/Bethlehem Energy									PPMVD @ 15%							
	Center			1	1	22 MW			1.2	02		1	1				
										PPMVD @ 15%							
	Liberty Electric Power, LLC				19	54 MMBtu/hr	Without DB		1.4	O2			1				
										PPMVD @ 15%							
	Liberty Electric Power, LLC		1		19	54 MMBtu/hr	With DB		4.7	02			1				

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL TH	ROUGHPUT THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
CT-0161	KILLINGLY ENERGY CENTE	-	7 Natural Gas w/o Du		2969 MMBtu/hr	Throughput is for turbine only	Oxidation Catalyst	+	7 PPMVD @15% O		LIMIT 2	0	CONDITION	EMISSION EIMIT	0	COMBITION
FL-0356	OKEECHOBEE CLEAN ENER	3/9/20	6 Combined-cycle ele	c Natural gas	3096 MMBtu/hr per turbine	3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total u	r Complete combustion minimizes VOC		1 PPMVD@15%O2	GAS OPERATION		2 PPMVD@15%O2	ULSD OPERATIO		0	
*FL-0363 FL-0364	DANIA BEACH ENERGY CES SEMINOLE GENERATING ST	12/4/20	7 2-on-1 combined cy	c Natural gas	4000 MMBtu/hr 3514 MMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Clean fuels		1 PPMVD@15% O	FOR NATURAL G	2.	6 PPMVD@15% O	FOR OIL OPERAT		0	
FL-0364	SEMINOLE GENERATING ST	3/21/20	8 2-on-1 natural gas c	o Naturai gas	3514 MMBtwhr	Two GE 7HA.02 combustion turbines, each rated at 415 MW. Total unit capacity is approxim Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	Oxidation catalyst		1 PPMVD(@15% O.	WITHOUT DUCT		2 PPMVD@15% O	2 CI + DUCI BURI	1	0	
						recovery steam generator (CTGHRSG).										
						Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/E and HRSG duct burners are each rated at 800 MMBTU/H.										
						and TRSG duct bulliers are each fated at 800 WINESTONE.	Oxidation catalyst technology and good									
*MI-0435	BELLE RIVER COMBINED C	7/16/20	8 FGCTGHRSG (EU	Natural gas	0	The HRSGs are not capable of operating independently from the CTGs.	combustion practices.	0.002	6 LB/MMBTU	EACH UNIT; HOU	0.001	LB/MMBTU	EACH UNIT W/O		0	
*PA-0310	CPV FAIRVIEW ENERGY CE	09/02/2016 +	Combustion turbine	a Natural gas	0	Emission limits are for each turbine fueled by NG and operating without duct burner being fire	d and do not include startup/shutdown emis	S2	1 PPMDV @ 15% C	12		0		(0	
TX-0788 TX-0789	NECHES STATION DECORDOVA STEAM ELECT	3/24/20	6 Combined Cycle &a 6 Combined Cycle &a	natural gas	231 MW 231 MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW 2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	OXIDATION CATALYST	1	2 PPM 2 PPM				-	-		
17-0/89			o Combined Cycle &	ii iiaturar gas		2 C FGs to operate in simple cycle & combined cycle modes. 231 WW (Stemens) of 210 WW	Dry low NOx burners and good		2 11 W			1		,	1	
TX-0790	PORT ARTHUR LNG EXPOR	2/17/20	6 Refrigeration Comp	renatural gas	10 M TONNES/YR	Four GE Frame 7E gas turbines for refrigeration and compression at the site	combustion practices		2 PPM	3-HR AVG		0		(0	
TX-0790	PORT ARTHUR LNG EXPOR	2/17/20	6 Simple Cycle Electi	natural gas	34 MW	Nine GE PGT25+G4 gas turbines for electrical generation at the site at 34 MW/turbine	OXIDATION CATALYST		2 PPM	3-HR AVERAGE		0		(0	
TX-0817	CHOCOLATE BAYOU STEAM	2/17/20	7 Combined Cycle Co	NATURAL GAS	50 MW	2 UNITS EACH 50 MW GE LM6000	OXIDATION CATALYST Oxidation Catalyst and good combustion		1 PPMDV			0			0	
*VA-0325	GREENSVILLE POWER STAT	6/17/20	6 COMBUSTION TU	Finatural gas	3227 MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	practices	1.	4 PPMVD		214.	8 T/YR	PER TURBINE-12		0	
		1				Nominal 640 mWe										
l	I					All emission limits steady-state and include 1000 mmBtu/hr Duct Burner in operation	Oxidation Catalyst, Good Combustion	l						l .		
*WV-0029	HARRISON COUNTY POWER OTAY MESA ENERGY	3/27/20	8 GE 7HA.02 Turbing	Natural Gas	3496.2 mmBtu/hr	Short Term startup and shutdown limits in lb/event given in permit.	Practices	11.	4 LB/HR PPMVD@15%		54.	8 TONS/YEAR			2 PPM	
CA-1177	CENTER LLC	7/22/20	Gas turbine 9 combined cycle	Natural gas	171.7 MW				2 OXYGEN	1 HOUR		0			0	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Source test results:										
			Gas turbine			1.45 ppm NOx @ 15% O2 or 2.19 lb/hr			PPMVD AT 15%							
CA-1178	APPLIED ENERGY LLC	3/20/20	9 combined cycle NATURAL-GAS	Natural gas	0	<0.22 ppm VOC @15%O2 or <0.12 lb/hr	Oxidation catalyst NATURAL GAS QUALITY GAS		2 02	1 HOUR		0		-	0	
			FIRED				ONLY FUEL GOOD COMBUSTION									
I	ROCKY MOUNTAIN		COMBINED-			ONE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING	PRATICES AND OXIDATION	1	1	1		1			1	1
CO-0056	ENERGY CENTER, LLC	5/2/20	6 CYCLE TURBINE	NATURAL GAS	300 MW	FACILITY.	CATALYST.	0.002	9 LB/MMBTU			0	1	-	0	
			Four combined			The open two comments of the state of the st				AVE OVER						
*CO-0073	PUEBLO AIRPORT GENERATING STATION	7/22/20	cycle combution	natural gas	373 mmbtu/hr	Three GE, LMS6000 PF, natural gas-fired, combined cycle CTG, rated at 373 MMBtu per	good combustion control and catalytic oxidation	1	PPMVD AT 15%	STACK TEST LENGTH		ام			ا	1
-00-0073	GENERATING STATION	1/22/20	0 turbines	naturai gas	3/3 mmoturir	hour each, based on HHV and one (1) HRSG each with no Duct Burners 500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr	oxidation		4102	LENGIH		0		,	0	
	NRG ENERGY CENTER					Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified				1 HOUR						
*DE-0023	DOVER	10/31/20	2 UNIT 2- KD1	Natural Gas	655 MMBTU/H	CEMS and COMS. Basis for the emission standard is either NSPS Subpart KKKK or Department BACT	Oxidation catalyst system	6	4 lb/hr	AVERAGE		0			0	
						Basis for the emission standard is either NSPS Subpart KKKK or Department BACT										
						The BACT emission standards for NOX while operating in combined cycle are more stringent										
			Combine cycle			than the corresponding Subpart KKKK emissions standards of 15 and 42 ppmvd @15% O2 on			PPMVD @ 15%							
FL-0337	POLK POWER STATION	10/14/20	2 power block (4 on 1) natural gas	1160 MW	than the corresponding Subpart KKKK emissions standards of 15 and 42 ppmvd @15% O2 on a 30-day rolling average for natural gas and fuel oil, respectively.	fuel Sulfur limits	1	4 02			0			0	
			COMBINED													
	PLANT MCDONOUGH		CYCLE COMBUSTION			6 TURBINES, 254 MW EACH (NOT INCLUDING STEAM RECOVERY), LIMITS ARE FOR EACH TURBINE (MITSUBISHI MODEL M501G). BACKUP FUEL FOR TWO			PPMVD @ 15%	3-HOUR WITH		PPMVD @ 15%	3-HOUR, WITHOUT DUCT			
GA-0127	COMBINED CYCLE	1/7/20		NATURAL GAS	254 MW	TURBINES IS ULTRA-LOW SULFUR FUEL OIL	OXIDATION CATALYST	1 1	802	DUCT BURNER		102	BURNER		ا	
			8 TURBINE COMBINED									1				
			CYCLE													
			COMBUSTION TURBINE -													
			ELECTRIC							3-HOUR						
			GENERATING				GOOD COMBUSTION PRACTICES.		PPMVD@ 15%	AVERAGE/COND						
GA-0138	LIVE OAKS POWER PLANT	4/8/20	0 PLANT	NATURAL GAS	600 MW		CATALYTIC OXIDATION		2 02	ITION 2.11		0			0	
	I								I	AVG. OF 3 ONE			l			
*IA-0107	MARSHALLTOWN GENERATING STATION	4/14/20	Combustion turbine		2258 mmBtu/hr	two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258 mmBtu/hr generating approx. 300 MW each.	catalytic oxidizer		PPMVD @ 15%	HOUR TEST RUNS	71	TON/YR	12-MONTH ROLLING	l .		
*IA-0107	GENERATING STATION	4/14/20	4 #1 - combined cycle	naturai gas	2238 ministurir	mmsturir generating approx. 500 M w each.	catalytic oxidizer		1102	AVERAGE 0F 3	/1.	2 TON TR	12-MONTH	'	"	
	MARSHALLTOWN		Combustion turbine						PPMVD @ 15%	ONE-HOUR TEST			ROLLING			
*IA-0107	GENERATING STATION	4/14/20	4 #2 -combined cycle	natural gas	2258 mmBtu/hr				1 02	RUNS	71.	2 TON/YR	TOTAL		0	
LA-0192	CRESCENT CITY POWER	6/6/200	GAS TURBINES - 5 187 MW (2)		2006 MMBTU/H		CO OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES		8 lb/hr	HOURLY MAXIMUM	12	3 T/YR	ANNUAL MAXIMUM		1 PPM @ 15% O2	ANNUAL AVERAGE
LA-0192	CRESCENT CHTTTOWER	0/0/20	Combined Cycle		2000 MMB1C/II		GOOD COMBOSTRONT RACTICES	-	.o itviii	MAXIMOM	12.	5 17 1K	MAXIMOM		1 11 M (a) 13 / a O2	AVERAGE
			Refrigeration													
	SABINE PASS LNG		Compressor				Good combustion practices and fueled by			HOURLY						
LA-0257	TERMINAL	12/6/20	1 Turbines (8)	natural gas	286 MMBTU/H	GE LM2500+G4 Throughput is 2,237 MMBTU/H for each CTG	natural gas	0.6	6 lb/hr	MAXIMUM		0		-	0	
			Natural gas fueled			Equipment is permitted as following flexible group (FG):		1	1	1		1			1	1
	1	1	combined cycle			FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam		1	1	L				1		1
	MIDLAND COGENERATION		combustion turbine generators (CTG)			generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected		1	1	EACH CTG; TEST						
*MI-0405		4/23/20	generators (CTG) 3 with HRSG	Natural gas	2237 MMBTU/H	to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and a selective catalytic reduction (SCR) system.	Good combustion practices	0.001	8 LB/MMBTU	PROTOCOL		ol			ol	1
	VENTURE NORTHERN STATES	123/20				,		5.00		1						1
	POWER CO. DBA XCEL		TURBINE,					1	L							
NO. OCC.	ENERGY - RIVERSIDE PLANT		COMBINED	NATURAL CO.	1005	TWO COMPLETION TURBINGS TUROUGURY FOR FIGUR	COOD COMPLICATION PRINCES	1 .	PPMVD @ 15%	3-HR BLOCK		ا			ا	1
MN-0066	PLANI	5/16/20	6 CYCLE (2) TURBINE,	NATURAL GAS	1885 mmbtu/h	TWO COMBUSTION TURBINES, THROUGHPUT FOR EACH	GOOD COMBUSTION PRACTICES	+ 4	.0102	AVERAGE OF 3		4	+	<u> </u>	1	
I			COMBINED				CO OXIDATION CATALYST AND	1	PPMVD @ 15%	TESTS-EACH 60		1			1	1
NJ-0074	WEST DEPTFORD ENERGY	5/6/20	9 CYCLE	NATURAL GAS	17298 MMFT3/YR	TILL AND AND AND AND AND AND AND AND AND AND	GOOD COMBUSTION PRACTICES	1	9 02	MIN		0	1	-	0	
						This is a 427 MW Siemens Combined Cycle Turbine with duct burner Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)		1	1	AVERAGE OF			AVERAGE OF			
			Combined Cycle			Heat Input rate of the turbine = 2276 MMbtu/hr (HHV) Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)		1	1	THREE ONE		1	THREE ONE		1	1
	WEST DEPTFORD ENERGY		Combustion Turbino	.			Oxidation catalysts and use of Natural	1	PPMVD @ 15%	HOUR STACK		1	HOUR STACK		1	1
*NJ-0082	STATION	7/18/20	4 without Duct Burne	Natural Gas	20282 MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burner. Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	gas a clean burning fuel	0	.7 02	TESTS	2.1	l lb/hr	TESTS		0	
				T		Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.				7 HOLD BY OCC.			2 HOLD BY OC.			2 HOUR BY C.
	ATHENS GENERATING		FUEL COMBUSTION			These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct		1	PPMVD @ 15%	3 HOUR BLOCK AVERAGE/		1	3 HOUR BLOCK AVERAGE/		PPMVD @ 15%	3 HOUR BLOCK AVERAGE/
	PLANT	1/19/20		NATURAL GAS	3100 MMBTU/H	burners.	GOOD COMBUSTION CONTROL	1	4 02	STEADY STATE	16	8 lb/hr	STEADY STATE		4 02	STEADY STATE
NY-0098			FUEL													
NY-0098	TEAN		COMBUSTION	NATURAL CO.	2000 2 0 0077777		OVIDATION CATALVOT	1	PPMVD @ 15%	AS PER EPA		PPMVD @ 15%	AS PER EPA		ا	1
			5 (NATURAL GAS)	NATURAL GAS	2099 MMBTU/H	Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300	OXIDATION CATALYST	1	1102	METHOD 25A		1102	METHOD 25A	-	U	-
	EMPIRE POWER PLANT	6/23/20		1		MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will		1	1							
		6/23/20	2 Combined Cycle			The second secon		1		1		1	1	1	1	
	EMPIRE POWER PLANT	6/23/20	Combustion			install either 2 Siemens or 2Mitsubishi, not both (not determined).										Inname and age
NY-0100	EMPIRE POWER PLANT OREGON CLEAN ENERGY		Combustion Turbines-Siemens,		MMSCF/rolling 12-	Short term limits are different with and without duct burners.							PER ROLLING 12			PPMVD AT 15%
NY-0100	EMPIRE POWER PLANT		Combustion	Natural Gas	MMSCF/rolling 12- 515600 months	install either 2 Siemens or 2Mitsubish, not both (not determined). Short term limits are different with and without duet burners. This process without duet burners.	oxidation catalyst	3	9 lb/hr		28.	6 T/YR	PER ROLLING 12 MONTHS		I PPM	PPMVD AT 15% O2
NY-0100	EMPIRE POWER PLANT OREGON CLEAN ENERGY		Combustion Turbines-Siemens,	s Natural Gas		Short term limits are different with and without duct burners. This process without duct burners.	oxidation catalyst	3	9 lb/hr		28.	6 T/YR		:	1 PPM	O2 O2
NY-0100	EMPIRE POWER PLANT OREGON CLEAN ENERGY		Combustion Turbines-Siemens, 3 without duct burners 2 Combined Cycle	s Natural Gas		Short term limits are different with and without duet burners. This process without duet burners. Two Mitsubishi 2932 MMBruH combined cycle combustion turbines, both with 300 MMBruH duet burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will	oxidation catalyst	3	.9 lb/hr		28.	6 T/YR			l PPM	O2 O2
NY-0100 NY-0100 *OH-0352	EMPIRE POWER PLANT OREGON CLEAN ENERGY CENTER		Combustion Turbines-Siemens, 3 without duct burners 2 Combined Cycle Combustion	s Natural Gas		Short term limits are different with and without duct burners. This process without duct burners. This process without duct burners. Two Mitsubsids 2932 MMBftuH combined cycle combustion turbines, both with 300 MMBftuH duct burners, with dry low NOx combusters, SCR, and catalytic oxidizer. Will install either 2 Stemes or 2 Mitsubsids, not both (not determined).	oxidation catalyst	3	.9 lb/hr		28.	6 T/YR	MONTHS		l PPM	02
NY-0100	EMPIRE POWER PLANT OREGON CLEAN ENERGY	6/18/20	Combustion Turbines-Siemens, 3 without duct burners 2 Combined Cycle	,	515600 months	Short term limits are different with and without duet burners. This process without duet burners. Two Mitsubishi 2932 MMBruH combined cycle combustion turbines, both with 300 MMBruH duet burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will	oxidation catalyst	3.	9 lb/hr			6 T/YR			l PPM	O2 PPMVD AT 15%

	1	IPERMIT ISSUANCE						ICONTROL METHOD	IFMISSION		IAVG TIME	TEMISSION		IAVG TIME	ISTANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT		LIMIT 2	UNIT		EMISSION LIMIT	UNIT	CONDITION
			Turbines (4) (model				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners										
	DUKE ENERGY HANGING		GE 7FA) Duct				off. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct							PER ROLLING 12	2		
*OH-0356	ROCK ENERGY	12/18/2012	Burners Off COMBINED	NATURAL GAS	172	2 MW	burners.	Using efficient combustion technology	3.2	lb/hr		44.1	T/YR	MONTHS	-	1	
			CYCLE														
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	COGENERATION >25MW	NATURAL GAS	1887	2 MMBTU/H	SIEMENS V84 3A	GOOD COMBUSTION	0.3	PPMVD @ 15%	3-HR AVG @ 15% O2	5.27	llb/hr	3-HR AVG @ 15% O2	1 .	,	
							SIEMENS V84.3A The Permittee shall select and install any of the turbine options listed below (or newer versions of these turbines if the										
							Department determines that such newer versions achieve equivalent or better emissions rates										
							and exhaust parameters) 1. General Electric 7FA (GE 7FA)										
							2. Siemens SGT6-5000F (Siemens F)										
	HICKORY RUN ENERGY		COMBINED CYCLE UNITS #1				3. Mitsubishi M501G (Mitsubishi G) 4. Siemens SGT6-8000H (Siemens H)			PPMVD @ 15%	WITH OR WITHOUT DUCT		TPY 12-MONTH	INCLUDING STARTUP AND			
*PA-0291	STATION	4/23/2013	and #2	Natural Gas	3.4	4 MMCF/HR	The emissions listed are for the Siemens SGT6-8000H unit.	Oxidation Catalyst	1.5	02	BURNER	93.44	ROLLING	SHUTDOWN			
	BERKS HOLLOW ENERGY		Turbine, Combined								12-MONTH ROLLING						
*PA-0296	ASSOC LLC/ONTELAUNEE CITY PUBLIC SERVICE JK	12/17/2013	Cycle, #1 and #2 SPRUCE POWER	Natural Gas	3046	6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst		93.85	T/YR	TOTAL						
	SPRUCE ELECTRICE		GENERATOR														
TX-0516	GENERATING UNIT 2	12/28/2005	UNIT NO 2				EACH TURBINE/HRSG WILL BE DESIGNED TO OUTPUT 350 MW. TURBINES		29	lb/hr		88	T/YR		-	1	
	PATTILLO BRANCH		ELECTRICITY				BEING CONSIDERED FOR THE PROJECT ARE GE 7FA, GE 7FB, AND SIEMENS SGT6			PPMVD @ 15%	@ 15% O2, 3-HR						
TX-0546	POWER PLANT	6/17/2009	GENERATION	NATURAL GAS	350	0 MW	5000F. The plant will be designed to generate 1,350 nominal megawatts of power. There are two	OXIDATION CATALYST	2	02	ROLLING AVG	-			-	1	+
							configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode				THREE-HOUR						
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural gas	1350	0 MW	(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B also includes one or two auxiliary boilers.	DLN burners in combination with an oxidation catalyst	1.8	PPMVD @ 15%	ROLLING AVERAGE				1 .	,	
		2010			1330		(2) GE7FA at 195 MW each, (1) steam purping at 200 MW		1.0			, i					
	THOMAS C. FERGUSON		Natural gas-fired				(1) steam turbine at 200 MW. Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which	Natural gas, good combustion practices		PPMVD @ 15%	3-HR AT 15%						
TX-0600	POWER PLANT	9/1/2011	turbines	natural gas	390	0 MW	provides steam for the steam turbine.	and oxidation catalyst	2	02	OXYGEN	-			1		+
							The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a										
			Combined1-				maximum base-load electric power output of approximately 195 megawatts (MW). The steam turbine is rated at approximately 235 MW. This project also includes the installation of two			PPMVD @ 15%							
TX-0620	ES JOSLIN POWER PLANT	9/12/2012	Combined cycle gas turbine	natural gas	195	5 MW	turbine is rated at approximately 235 MW. This project also includes the installation of two emergency generators, one fire water pump, and auxiliary equipment. No duct burners.	good combustion and natural gas as fuel	2	O2 15%	@15% O2				<u> </u>		
											CORRECTED TO 15% O2						
	FGE TEXAS POWER I AND						Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity 409	Oxidation catalyst, good combustion		PPMVD@15%	ROLLING 3 HR						
*TX-0660	FGE TEXAS POWER II	3/24/2014	Alstom Turbine	Natural Gas	230.7	7 MW	MMBtu/hr	practices	2	02	AVE	(1	
	FREEPORT LNG						The exhaust heat from the turbine will be used to heat a heating medium which is used to			PPMVD@15%	1 HOUR BASED						
*TX-0678	PRETREATMENT FACILITY	7/16/2014	Combustion Turbine Natural gas-fired	natural gas	87	7 MW	regenerate rich amine from the acid gas removal system.	oxidation catalyst	2	02	ON STACK TEST	- 0			-	1	-
	SAND HILL ENERGY		combined cycle							PPMVD@15%							
*TX-0709	CENTER	9/13/2013	turbines Combined-cycle gas	Natural Gas	173.5	9 MW			2	02	1HR. AVG.					-	
	COLORADO BEND ENERGY		turbine electric				combined cycle power plant that uses two combustion turbines and one steam turbine, model			PPMVD @ 15%							
*TX-0730	CENTER	4/1/2015	generating facility COMBINED	natural gas	1100	0 MW	GE 7HA.02	SCR and oxidation catalyst	4	02	3-HR AVERAGE 3 HR AVG.	-		3 HR. AVG.	<u> </u>	1	+
			CYCLE TURBINE								(WITHOUT			(WITH DUCT			
VA-0315	WARREN COUNTY POWER PLANT - DOMINION	12/17/2010	& DUCT BURNER, 3	Natural Gas	2996	6 MMBTU/H	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Oxidation catalyst and good combustion practices.	2.6	lb/hr	DUCT BURNER FIRING)	6.1	lb/hr	BURNER FIRING)		,	
	BRUNSWICK COUNTY		COMBUSTION TURBINE							PPMVD@15%	3 H AVG/WITHOUT						
*VA-0321	POWER STATION	3/12/2013		Natural Gas	3442	2 MMBTU/H	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners (natural gas-fired).	Oxidation catalyst; good combustion practices.	0.7	O2 15%	DUCT BURNING					,	
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION		Combined Cycle Turbine (EP01)	Natural Gas		0 MW		Oxidation Catalyst		PPMVD @ 15% O2	1-HOUR			3-HOUR AVERAGE		T/YR	
	CHEYENNE PRAIRIE		Combined Cycle						,	PPMVD @ 15%	3-HOUR	<u> </u>	IO/III	3-HOUR			
*WY-0070	GENERATING STATION	8/28/2012	Turbine (EP02)	Natural Gas	40	0 MW		Oxidation Catalyst	3	O2	AVERAGE 1-hr average; Duct	3	lb/hr	AVERAGE 1-hr average; Duct	14.	T/YR	
	Astoria Energy LLC		Combustion Turbine	Natural Gas	1000	0 MW		Low NOx Burners	0.003	lb/MMBtu	Burners Off	5.43	lb/hr	Burners Off			
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas	344	6 MW		Low NOx Burners	,	llb/br	1-hr average; Duct Burners Off	0.0013	lb/MMRtu	1-hr average; Duct Burners Off			
	Footprint Power Salem Harbor								1	PPMVD @ 15%	1-hr average; Duct			1-hr average; Duct			
	Development LP		Combustion Turbine	Natural Gas	346	6 MW		Low NOx Burners	 	O2 PPMVD @ 15%	Burners Off 1-hr average; Duct	0.009	lb/MW-hr	Burners Off			+
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	0 MW		Oxidation Catalyst	1	02	Burners Off						
	Hawkeye Generating, LLC		Combustion Turbine	Natural Gas						lb/MMBtu	1-hr average; Duct Burners Off						
	Huntington Beach Energy Project		Combustion Turbine	Natural Gas	020	9 MW				PPMVD @ 15%	1-hr average; Duct						
	Project		Combustion Turbine	ivatural Gas	939	9 N1W			†	102	Burners Off Avg of 3 stack test						+
	Hace Nameric Economic Cont		Combustion Turbine	Natural Gas					l .	PPMVD @ 15%	runs; Duct Burners						
	Hess Newark Energy Center					1			†	PPMVD @ 15%	Oil						
	Kalama Energy Center		Combustion Turbine	Natural Gas	2247	7 MMBtu/hr		Oxidation Catalyst	1	02	1-hr average	3.2	lb/hr	1-hr average			+
	Kalama Energy Center		Combustion Turbine	Natural Gas	2247	7 MMBtu/hr		Oxidation Catalyst	47.8	tpy	12-mo rolling						
	Lawrence Energy Center LLC		Combustion Turbine	Natural Gas		0 MW			0.00221	lb/MMBtu		4.2	lb/hr				
	Lawrence Energy Center LLC		Combustion Turbine	Natural Gas		0 MW				lb/MMBtu		4.2	lb/hr				+
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	9 MMBtu/hr	Town Minuteshi 2022 MMD and combined and		1.11	lb/hr							
							Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
			20-1-10:				install either 2 Siemens or 2Mitsubishi, not both (not determined).										
			2 Combined Cycle Combustion				Short term limits are different with and without duct burners.										
	OREGON CLEAN ENERGY		Turbines-Siemens,			MMSCF/rolling 12-		9.2		DD1.4	PPMVD AT 15%						
	CENTER		without duct burners	Natural Gas	515600		This process without duct burners.	oxidation catalyst	 	PPMVD @ 15%	102	<u> </u>		 		1	+
	PacifiCorp Energy		Block 2 CT	Natural Gas	629	9 MW			2.8	O2 PPMVD @ 15%	3-hour	14.1	lb/hr				+
	Sevier Power Company Power Plant		Combustion Turbine	Natural Gas	580	0 MW			3	02	3-hr average						
	CPV Valley Energy Center			Natural Gas		0 MW			0.7	PPMVD @ 15%	1-hr average					1	
	Wawayanda, NY Woodbridge Energy Center								V./	PPMVD @ 15%	1-m average						\vdash
	(CPV Shore, LLC)			Natural Gas	2,307	7 MMBtu/hr			1	02							

		PERMIT ISSUANCE						CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD	AVG TIME
RBLCID			PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES								EMISSION LIMIT	CONDITION
																T
			COMBINED HEAT													
			AND POWER													
			DUAL-FIRED													
	PA STATE UNIV/UNIV		COMBUSTION							PPMVD @ 15%						
	PARK CAMPUS		TURBINE	Natural Gas	86.2	9 MMBtu/hr			10.8							
	l			l						PPMVD @ 15%			l			
-	Hummel Station LLC	-	Combustion Turbine	Natural Gas	2,254.0	00 MMBtu/hr			- 1	O2 PPMVD @ 15%		3	lb/hr			+
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	214	7 MMBtu/hr			1.4	O2						
	UGI Development Co/ Hunlock		Comoustion rutoine	ivaturai Gas	314	/ MINIDON			1.99	PPMVD @ 15%						+
	Creek			Natural Gas	471.	.2 MMBtu/hr			1.2	02	>32 °F					
	UGI Development Co/ Hunlock									PPMVD @ 15%						
	Creek			Natural Gas	471.	.2 MMBtu/hr			4	02	<32 °F					
	Hawkeye Generating, LLC			Natural Gas	61	5 MW				lb/MMBtu		54.16	tpy			
	Huntington Beach Energy									PPMVD @ 15%						
	Project			Natural Gas	93	9 MW (net)			1		1-hr rolling					
			Combustion Turbine		222	0 MMBtu/hr				PPMVD @ 15% O2			lb/MMBtu			
-	Hess Newark Energy Center		Combustion Turbine	Natural Gas	232	0 MMBtwhr			- 1		3-hour block	0.001	Ib/MMBtu			
										PPMVD @ 15%						
	York Energy Center Block 2	6/15/2015			2512	.5 MMBtu/hr	firing NG without duct burner		1.5		3 test runs	1				
	Calpine/Bethlehem Energy	0/13/2013			2312.		ining 100 which due build		1.5	PPMVD @ 15%	J test ruib					
	Center				12	2 MW			1.2	02						
										PPMVD @ 15%						
	Liberty Electric Power, LLC				195	4 MMBtu/hr	Without DB		1.4	O2						

		IPERMIT ISSUANCE		IDDIMADV			invenergy, EEG - Allegheny County Energ	ICONTROL METHOD	TEMISSION		AVCTIME	TEMISSION		IAVCTIME	ISTANDADAD		IAVC TIME
RBLCID	FACILITY NAME	DATE DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSGI & EUCTGHRSG2 in the flexible groups FCCGHRSG. The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period.				TEST						
MI-0423	INDECK NILES, LLC	1/4/2013	FGCTGHRSG (2 Combined Cycle	Notes I	922	MMBTU/H	The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.		9 9 I B/H	PROTOCOL WILL SPECIFY AVG TIME						
MIP0423	INDECK NILES, LLC	13472017	CTGs with HRSGs) FGCTGHRSG (2	Ivaturai gas	632.	MINIBICIT	uans.	quanty natural gas.		3.3 LD/11	AVGTIME		-				1
MI-0424	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET		Combined cycle CTGs with HRSGs; EUCTGHRSG10 & amp; EUCTGHRSG11)	Natural gas	55-	MMBTU/H, each	Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month fulling time period.	Good combustion practices and the use of pipeline quality natural gas.	f 0.	007 LB/MMBTU	TEST PROTOCOL WILL SPECIFY AVG TIME		0			D	
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	Natural gas	50) MW	A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a 1x1 class turbine with a rating of 3,080 MMBTUH(HHY). The HRSG is equipped with a natural gas-fired duct burner rated at 75 MMBTUH(HHY) at SC conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOX burner (DLMS), SCR, and an oxidation catalyst.	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.		5.8 LB/H	HOURLY		0			0	
			EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat				Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HBRSG dust burner rating of 755 MMBTU/hr (HHV). A combined-spice anomal par-fired combination turbine generator (CTG) with heat econvery stems generator (HBRSG) is a 1st configuration with a stem turbine generator (STG) for a seminal 500 MW electricity production. The CTG is a 1st Lists turbine with a rating of 3,080 MMBTU/hr (HHV). The HBRSG is equipped with a natural gas-fired duct burner ratio at 750 MMBTU/hr (HHV) at 18C conditions or provide bact for additional stems production. The	Good combustion practices, inlet air									
	MEC NORTH, LLC AND		recovery steam				HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped	conditioning, and the use of pipeline									
*MI-0433	MEC SOUTH LLC	6/29/2018	generator.	Natural gas	500	MW	with dry low NOx burner (DLNB), SCR, and an oxidation catalyst. Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat recovery steam generator (CTGHRSG).	quality natural gas.		5.8 LB/H	HOURLY		0			0	
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1 & amp; B EUCTGHRSG2)	Natural gas)	Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H and HRSG duct burners are each rated at 800 MMBTU/H. The HRSGs are not capable of operating independently from the CTGs.	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.		16 LB/H	HOURLY; EACH UNIT	15	2.2 LB/H	HOURLY; EACH UNIT W/O DUC BURNER FIRIN	г	0	
	TENASKA PA PARTNERS/WESTMORELA		Large combustion					Good combustion practices with the use									
*PA-0306	ND GEN FAC	2/12/2016	turbine	Natural Gas	-		This process entry is for operations with the duct burner. Limits entered are for each turbine. Emission limits are for each turbine operating with duct burner and do not include	of low ash/sulfer fuels	0.0	039 LB/MMBTU		11	.8 LB/HR		1	0	
	CPV FAIRVIEW ENERGY		Combustion turbine and HRSG with due				startips/butdown emissions. Tons per year limits is a cumulative value for all three CCCT. CEMS for NO., CO, and O2. Each CCCT and dust burner have 5 operational senarios: 1 CCCT with duet burner fired - fueled by NG only 2 CCCT with duet burner fired - fueled by NG blend with ethane 3 CCCT without duet burner fired - fired by NG volly 4 CCCT without the burner fired - fired by NG blend with ethane	Low sulfur fuel, good combustion						12-MONTH			
*PA-0310	CENTER	9/2/2016	burner NG only	Natural Gas	333	MMBtu/hr	5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)	practicies	0.	005 LB/MMBTU		131	.5 TONS	ROLLING BASI	-	0	+
TN-0162	JOHNSONVILLE COGENERATION	4/19/2016	Natural Gas-Fired Combustion Turbine with HRSG	Natural Gas	133	MMBtu/hr	Turbine throughput is 1019.7 MMBtu/hr when burning natural gas and 1083.7 MMBtu/hr when burning No. 2 oil. Duct burner throughput is 319.3 MMBtu/hr. Duct burner firing will occur during natural gas combustion only.	Good combustion design and practices	0.0	005 LB/MMBTU		0.0	15 LB/MMBTU			0	
	GAINES COUNTY POWER		Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine	NATURAL			Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam	Pipeline quality natural gas; good									
TX-0819	PLANT	4/28/2017	Generator	GAS	420	MW	Turbine Generators Nominal 640 mWe	combustion practices		0			0		+	0	+
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/2018	GE 7HA.02 Turbine	Natural Gas	3496.	2 mmBtu/hr	All emission limits steady-state and include 1000 mmBtu'hr Duct Burner in operation Short Term startup and shutdown limits in lb/event given in permit.	Air Filter, Use of Natural Gas, Good Combustion Practices	1	8.2 LB/HR		100	0.1 TONS/YEAR		18.	2 LB/HR	
47. 0107	MARSHALLTOWN GENERATING STATION	47,400,4	Combustion turbine		225					0.01 LB/MMBTU	AVERAGE OF 3 ONE-HOUR TEST	7	I TOMATA	12-MONTH ROLLING TOTAL			
*IA-0107	ST. JOSEPH ENEGRY CENTER, LLC		#2 -combined cycle FOUR (4) NATURAL GAS COMBINED CYCLE COMBUSTION TURBINES	natural gas NATURAL GAS		8 mmBtw/hr	EACH TUBBNE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR IDENTIFIED AS HIRSGIN. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC EMISSIONS CONTROLLED BY OLDIATION CATALYTIC SYSTEMS (CAT##) IN EACH TUBBNE. EACH STACK HAS CONTROLOS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMAILED POWER OUTPUT: 13:150 MW.	GOOD CUMBUSTION PRACTICE AND FUEL SPECIFICATION		18 lb/hr	3 HOURS	,,	78 LB/MMBTU	3 HOURS		0	
		.23/2012	FOUR (4) NATURAL GAS COMBINED CYCLE		230		NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1350 MW. EACH TURBEN ES (DUPED WITH DRY LOW NOX BURNERS, NATURAL GAS FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR DENTIFIED AS HISGS. MOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCRE#) ALONG WITH CO AND VOC EMISSIONS CONTROLLED BY OMDATION CATALYTIC SYSTEMS (CAT##) IN					5.00					
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	COMBUSTION TURBINES 2 COMBINED- CYCLE	NATURAL GAS	2300	MMBTU/H	EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW. TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 275 MW. COLIU ED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG)	GOOD CUMBUSTION PRACTICE AND FUEL SPECIFICATION		18 lb/hr	3 HOURS	0.00	78 LB/MMBTU	3 HOURS		0	+
*MD-0041	CPV ST. CHARLES	4/23/2014	CYCLE COMBUSTION TURBINES	NATURAL GAS	72:	MEGAWATT	725 MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST	NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRACTICE	0.0	007 LB/MMBTU	3-HOUR BLOCK AVERAGE		0			0	
*MD-0042	WILDCAT POINT GENERATION FACILITY		2 COMBINED CYCLE COMBUSTION TURBINES, WITH DUCT FIRING	NATURAL GAS) MW	TWO MITSURISH & Isopao: Ælsapao: Ælsapao: MODEL COMBUSTION TURRINE GENERATORS. (CT) WITH A NOMINAL GENERATING CAPACITY OF 270 MW CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS, SELECTIVE CATALYTIC REDUCTION (SCR.) OXIDATION CATALYST Throughput is 257 WIMBTUH for each CTO	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	2	22.8 lb/hr	3-HOUR BLOCK AVERAGE		0			D	
*MI-0405	MIDLAND COGENERATION VENTURE	4/23/2013	Natural gas fueled combined cycle combustion turbine generators (CTG) with HRSG	Natural gas	223'	7 MMBTU/H	Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fred CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a selective easibite (reaction ISCR) system.	Good combustion practices	0.0	006 LB/MMBTU	EACH CTG; TEST PROTOCOL		0			D	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
WECTD.	PACAGITT NAME	I I	I KOCESS MAME	LVEL		, Ocom er UNII		Discountification and the second	Lacilli I	vall	COMPTION	L.MIT Z	IV-MII	SOMPTION	L. HISSION LIMIT	No. III	CONDITION
							This process is permitted in a flexible group format, identified in the permit as FG-CTG/DB1-2 and is for two natural gas fired CTGs with each turbine containing a heat recovery steam										
			Natural gas fueled				[generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected										
			combined cycle				to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and										
			combustion turbine				a selective catalytic reduction (SCR) system. Additionally, the HRSG is operating with a										
	MIDLAND COGENERATION		generators (CTG) with HRSG and duct				natural gas fired duct burner for supplemental firing.				TEST						
*MI-0405	VENTURE	4/23/201	burner (DB)	Natural gas	2486	MMBTU/H	The throughput is 2,486 MMBTU/H for each CTG/DB. Natural gas fired CTG with DB for HRSG: 4 total.	Good combustion practices	0.004	LB/MMBTU	PROTOCOL		0			0	
							Natural gas fired CTG with DB for HRSG; 4 total.										
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							reclinology A (4 total) is 2567 MMB FO/11 design near input each C FG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
							L										
							Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG				TEST						
			FGCCA or FGCCB-	1			trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be	Combustion air filters; efficient			PROTOCOL; (3 1						
	THETFORD GENERATING		4 nat. gas fired CTG			MMBTU/H heat input,	rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up	combustion control; low sulfur natural gas			H TESTS IF						
*MI-0410	STATION	7/25/201	w/ DB for HRSG	natural gas	2587	each CTG	to 1,400 MW. This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle natural gas-	fuel.	0.0033	LB/MMBTU	POSSIBLE)		0			0	-
							This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle natural gas- fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSGs)										
			FG-CTGHRSG: 2				equipped with duct burners for supplemental firing (EUCTGHRSG1 & EUCTGHRSG2 in										
	HOLLAND BOARD OF		Combined cycle				FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not										
*MI-0412	PUBLIC WORKS - EAST 5TE STREET	12/4/201	CTGs with HRSGs		642	MMBTU/H for each CTGHRSG	exceed 635 hours per 12-month rolling time period. Each CTGHRSG shall not exceed 647	Good combustion practices and the use of	0.007	LB/MMBTU	TEST PROTOCOL		0				
*MI-0412	SIREEI	12/4/201	With duct burners COMBINED	natural gas	647	CIGHRSG	MMBtu/hr on a fuel heat input basis.	pipeline quality natural gas.	0.007	LB/MMB1U	PROTOCOL		0			U	
			CYCLE				Natural Gas Usage <= 33,691 MMft^3/yr										
			COMBUSTION				per 365 consecutive day period, rolling one										
	PSEG FOSSIL LLC SEWAREN GENERATING		TURBINE WITH DUCT BURNER -			MMCUBIC FT PER	day basis (per two Siemens turbines and two associated duct burners) The heat input rate of the Siemens turbine will be 2,356 MMBtu/hr(HHV) with a 62.1 duct				AVERAGE OF THREE ONE	1	1		1	1	1
*NJ-0081	STATION	3/7/201	SIEMENS	Natural Gas	33691	YEAR	burner MMRtu/br(HHV)	Use of natural gas a clean burning fuel	10.6	lb/hr	HOUR TESTS		0			0	
		0.77407			2307		This is a 427 MW Siemens Combined Cycle Turbine with duct burner		.0.0			1	1			1	
							Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)							l			
	WEST DEPTFORD ENERGY		Combined Cycle Combustion Turbine			1	Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)				AVERAGE OF THREE STACK	1	1	AVERAGE OF THREE STACK	1	1	1
*NJ-0082	STATION	7/18/201-	with Duct Burner	Natural Gas	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners.	Use of Natural gas a clean burning fuel	15.1	lb/hr	TEST RUNS	0.004	8 LB/MMBTU	TEST RUNS		o	
	MOXIE ENERGY		Combined Cycle														
	LLC/PATRIOT		Power Blocks 472				Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a						.				
*PA-0286	GENERATION PLT	1/31/201	3 MW - (2)	Natural Gas	(1	combustion turbine and heat recovery steam generator with duct burner.		0.0057	LB/MMBTU			4 T/YR	EACH UNIT		0	_
			Combined Cycle														
			Combustion Turbine				Three powerblocks consisting of three (3) natural gas fired F class combustion turbines coupled										
	SUNBURY GENERATION		AND DUCT				with three (3) heat recovery steam generators (HSRGs) equipped										
*PA-0288	LP/SUNBURY SES	4/1/201	BURNER (3)	Natural Gas	2538000	MMBTU/H	with natural gas fired duct burners. The Permittee shall select and install any of the turbine options listed below (or newer versions		0.0088	LB/MMBTU			0	_	-	1	+
							of these turbines if the										
							Department determines that such newer versions achieve equivalent or better emissions rates										
							and exhaust parameters) 1. General Electric 7FA (GE 7FA)										
							2. Siemens SGT6-5000F (Siemens F)										
			COMBINED				Mitsubishi M501G (Mitsubishi G)										INCLUDING
	HICKORY RUN ENERGY		CYCLE UNITS #1				4. Siemens SGT6-8000H (Siemens H)			lb/hr W/ DUCT			11.0 lb/hr			T/YR 12-MONTH	
*PA-0291	STATION	4/23/201	3 and #2	Natural Gas	3.4	MMCF/HR	The emissions listed are for the Siemens SGT6-8000H unit.		18.5	BURNER	12-MONTH		1 WITHOUT		62.8	ROLLIN	SHUTDOWN
	BERKS HOLLOW ENERGY		Turbine, Combined								ROLLING						
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/201	Cycle, #1 and #2	Natural Gas	3046	MMBtu/hr	Equipped with SCR and Oxidation Catalyst		48.56	TPY	TOTAL	21.5	5 lb/hr			D	
			Turbine, COMBINED											BASED ON A 12 MONTH			
	FUTURE POWER PA/GOOD		CYCLE UNIT								WITH DUCT			ROLLING			
*PA-0298	SPRINGS NGCC FACILITY	3/4/201	(Siemens 5000)	Natural Gas	2267	MMBtu/hr			10.4	lb/hr	BURNER	38.9	5 T/YR	TOTAL		o	
							Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.										
	COLORADO BEND ENERGY		Combined-cycle gas				These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct										
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/201	turbine electric generating facility	natural gas	1100	MW	on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct burners.	efficient combustion, natural gas fuel	42	lls/he			0				
	CHEYENNE PRAIRIE		Combined Cycle		1100	IVIV	ouners.	emelen combustion, natural gas ruer	43	IOIE	3-HOUR		0	CALENDAR			
*WY-0070	GENERATING STATION	8/28/201	Turbine (EP01)	Natural Gas	40	MW		good combustion practices	4	lb/hr	AVERAGE	17	5 TONS	YEAR		0	
AK-0071	INTERNATIONAL STATION	12/20/201	GE LM6000PF-25	Natural Gas	50000	hp ISO	man and a second second	Good Combustion Practices	0.0000	LB/MMBTU	3-HOUR AVERAGE						
AK-00/1	POWER PLANT	12/20/201	Turbines (4)	ivatural Gas	59900	1 mp 150	Turbine-duct burner pairs exhaust through common stack		0.0066	LD/MMB1U	AVERAGE	l	4	1	1	"	1
								Combustion Turbines EU IDs 5-8 use			1		1				
								good combustion practices involve			1		1			1	
						1		increasing the residence time and excess oxygen to ensure complete combustion			1	1	1		1	1	1
	INTERNATIONAL STATION						EU IDs 5-8 Combined Cycle Natural Gas-fired Combustion Turbines rated at 59,900 hp (44.7	oxygen to ensure complete combustion which in turn minimize particulates			1		1			1	
AK-0073	POWER PLANT	12/20/201	Fuel Combustion	Natural Gas	59900	HP	MW)	without an add-on control technology.	0.0066	LB/MMBTU	3-HOUR		0			0	
								USE PUBLIC UTILITY COMMISSION QUALITY NATURAL GAS W/			1		1				
	BLYTHE ENERGY PROJECT	[2 COMBUSTION	NATURAL		1		SULFUR CONTENT LESS THAN OR			1	1	1		1	1	1
CA-1144	II	4/25/200	TURBINES	GAS	170	MW	EACH TURBINE WILL PRODUCE 170 MW	EQUAL TO 0.5 GRAINS PER 100 SCF	6	lb/hr	1		1 T/YR		1	0	
			COMBUSTION					-				1					
			TURBINE #2 (NORMAL								12-MONTH		1				
			OPERATION.			1					ROLLING AVG	1	1		1	1	1
	VICTORVILLE 2 HYBRID		WITH DUCT	NATURAL		1					(W/DUCT	1	1		1	1	1
CA-1191	POWER PROJECT	3/11/201	BURNING)	GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS	18	lb/hr	BURNING)		0			0	
			COMBUSTION TURBINE #1								1		1				
			(NORMAL			1					1	1	1		1	1	1
			OPERATION,								1		1				
			WITH DUCT	NATURAL							12-MONTH		1				
CA-1192	AVENAL ENERGY PROJECT	T 6/21/201	BURNING)	GAS	180	MW		USE PUC QUALITY NATURAL GAS	11.78	lb/hr	ROLLING AVG	1	0		-	0	+
						1		USE PIPELINE QUALITY NATURAL			1	1	1		1	1	1
			COMBUSTION					GAS, OPERATE DUCT BURNERS NO			6-HR ROLLING			6-HR ROLLING		1	
	MORRO BAY POWER		TURBINE	NATURAL				MORE THAN 4000 HRS PER YEAR			AVG (NO DUCT		1	AVG (W/ DUCT			
		9/25/200	GENERATOR	GAS	180	MW		(12-MONTH ROLLING AVG BASIS)	11	lb/hr	BURNING)	13	3 lb/hr	BURNING)		0	
CA-1198	PLANT																1
CA-1198	PLANT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	COMBUSTION														
CA-1198	PLANT COLUSA GENERATING	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	COMBUSTION TURBINES (NORMAL	NATURAL			TWO (2) NATURAL GAS FIRED TURBINES AT 172 MW EACH. BOTH TURBINES										

		IPERMIT ISSUANCE		IPRIMARY	1		invenergy, EEG - Allegheny County Energ	CONTROL METHOD	TEMISSION	IAVG TIME	TEMISSION		IAVG TIME	ISTANDARAD		TAVC TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1 UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	COMBUSTION TURBINES (NORMAL OPERATION)	NATURAL GAS	15	4 MW	TWO NATURAL GAS-FRED COMBUSTION TURBING-GENERATORS (CTGS) RATED AT 154 MEGAWATT (MW. (ROSS) EACH, TWO HEAT RECOVERY STEAM GENERATORS (HRSG), ONE STEAM TURBING GENERATOR (STG) RATED AT 267 MW., AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH ASSOCIATED HEAT-TRANSFER EQUIPMENT	USE PUC QUALITY NATURAL GAS	0.0048 LB/MMBTU	9-HR AVG (NO DUCT BURNING	0.0049	LB/MMBTU	9-HR AVG (W/ DUCT BURNING) 0		
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	5/2/2006	NATURAL-GAS FIRED, COMBINED- CYCLE TURBINE	NATURAL GAS	30	0 MW	ONE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING FACILITY.	NATURAL GAS QUALITY FUEL ONLY AND GOOD COMBUSTION CONTROL PRACTICES.	0.0074 LB/MMBTU		10	% OPACITY		0		
			SIEMENS SGT6- 5000F COMBUSTION TURBINE #1 AND #2 (NATURAL				THROUGHPUT IS FOR TURBINE ONLY WHEN FIRING NATURAL GAS TURBINE: 2136 MMBTU/HR (2.095 MMCF/HR)									
CT-0151	KLEEN ENERGY SYSTEMS,	2.05.2008	GAS FIRED) WITH 445 MMBTU/HR NATURAL GAS DUCT BURNER	NATURAL	2	1 MMCF/H	DUCT BURNER: 445 MMBTU/HR (0.436 MMCF/HR) EMISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS, NOT COMBINED.		11 lb/br	W/OUT DUCT BURNER	15.2	Uhilbe	W/ DUCT BURNER			
	GARRISON ENERGY			U/LD			NOT COMPAND.	Fuel Usage Restriction to natural gas and	11 1012	12 MONTH ROLLING	13.2	10.11	DOMINA	V		
DE-0024	CENTER	1/30/2013	170 MW	Natural Gas	226	0 million BTUs	GENERATING CAPACITY: EACH OF THE FOUR GAS TURBINES HAS A NOMINAL GENERATING CAPACITY OF 170 MW FOR GAS FIRING (180 MW FOR OIL FIRING). EACH OF THE FOUR HEAT RECOVERY STEAM GENERATORS, (HRSGS) PROVIDES STEAM TO THE SINGLE STEAM THRISHE ELECTRICAL GENERATOR, WHICH HAS A NOMINAL CAPACITY OF 470 MW. THE TOTAL NOMINAL GENERATING CAPACITY OF 470 MW. THE TOTAL NOMINAL GENERATING CAPACITY OF HE 40-N1 COMBINED CYCLE UNIT IS 110 MW. FUELS: EACH GAS TURBINE WILL FIRE NATURAL GAS AS THE PRIMARY FUEL AND ULTRA LOW SULFUR (0.0015% SULFUR) DISTILLATE OIL AS A RESTRICTED ALTERNATE FUEL EMISSISON OF ALL POLLUTANTS NCREASE WITH THE FIRING OF OIL. THE APPLICANT REQUESTS 500 HOURS PER YEAR PER GAS TURBING COUNTAINS.	low sulfur distillate oil PM/PM10 WILL BE MINIMIZED BY	120.4 TONS/Y	AVERAGE	0			0		
	FPL TURKEY POINT		COMBUSTION TURBINE, 4	NATURAL			MODES OF OPERATION: STANDARD NORMAL OPERATION, WITH DUCT	THE EFFICIENT COMBUSTION OF NATURAL GAS AND DISTILLATE								
	POWER PLANT	2/8/2005	COMBINED	NATURAL NATURAL		0 MW	BURNER, POWER AUGMENTATION AND PEAKING.	OIL AT HIGH TEMPERATURES.	0	6 MIM BLOCK	0			0		
FL-0265	HINES POWER BLOCK 4	6/8/2005	COMBUSTION	GAS	53	0 MW		CLEAN FUELS	10 % OPACITY	AVERAGE	0			10	% OPACITY	+
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	BURNER	NATURAL GAS (ONLY)	2375.2	8 MMBTU/H	SIEMENS SGT6-5000F COMBUSTION TURBINE (NGCT, CCGT) FOR ELECTRICAL GENERATION, NOMINAL 269 MW AND 2.1466 MMSCF/HR	GOOD COMBUSTION PRACTICES (GCP)	0	SEE NOTE	0			0		
	PLAQUEMINE		(4) GAS TURBINES/DUCT	NATURAL			VISUAL INSPECTION FOR OPACITY ON A WEEKLY BASIS, STACK TESTS FOR PM, NOX, SO2, OPACITY, CO			HOURLY			ANNUAL			
LA-0136	COGENERATION FACILITY	7/23/2008	BURNERS	GAS	287	6 MMBTU/H	EMISSION POINTS GT-500, -600, -700, -800.	USE OF CLEAN BURNING FUELS USE OF CLEAN BURNING FUEL	33.5 lb/hr	MAXIMUM	139	T/YR	MAXIMUM	0		+
LA-0192	CRESCENT CITY POWER	6/6/2005	GAS TURBINES - 187 MW (2) TWO COMBINED		200	6 MMBTU/H		AND GOOD COMBUSTION PRACTICES GOOD COMBUSTION DESIGN/ PROPER OPERATING PRACTICES/	29.4 lb/hr	HOURLY MAXIMUM	128.8	T/YR	ANNUAL MAXIMUM	0		NOT AVAILABLE
LA-0224	ARSENAL HILL POWER PLANT	3/20/2008	CYCLE GAS TURBINES Combined Cycle	NATURAL GAS	211	0 MMBTU/H	CTG-1 TURBINE/DUCT BURNER (EQT012) CTG-2 TURBINE/DUCT BURNER(EQT013)	PIPELINE QUALITY NATURAL GAS AS FUEL	24.23 lb/hr	MAX	0			0		
	SABINE PASS LNG		Refrigeration Compressor					Good combustion practices and fueled by		HOURLY						
LA-0257 MI-0366	BERRIEN ENERGY, LLC		3 COMBUSTION TURBINES AND DUCT BURNERS	natural gas NATURAL		6 MMBTU/H 4 MMBTU/H	GE LM2900-G4 EACH TURBINE IS EQUIPPED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG), EACH HRSG IS EQUIPPED WITH A NATURAL GAS FREED DUCT BURNER (659 MMBTUH), TOTAL NOMBAL PLAN GENERATING CAPACITY WITHOUT DUCT FIRNG IS 800 MW. A MAX OUTPUT OF 1100 MW THROUGH SUPPLEMENTAL FIRNG OF HRSG.	natural gas STATE OF THE ART COMBUSTION TECHNIQUES AND USE OF NATURAL GAS ARE BACT FOR PM10.	2.08 lb/hr	MAXIMUM	202.2	T/YR		0		
111 0300	BERKEN CALERO LEC	70.137.2003	COMBINED CYCLE COMBUSTION	G/G	130	, man of the	COMBUSTION TURBINE PERMITTED TO USE NG & NO. 2 OIL; DUCT BURNER	1110	1910		233.3	, in the second				CTG OIL & DB NOT OPERATE
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	TURBINE W/DUCT BURNER TURBINE, COMBINED CYCLE, NATURAL GAS,	NATURAL CGAS	175	8 MMBTU/H	PERMITTED TO USE NG & NO. 2 OIL. DUCT BURNER ALSO AUTHORIZED TO COMBINIT LOUDIB BIOFLE. Each of those units have a natural gas-fired heat recovery steam generator and a natural gas-fired duct burner. Each CT combusts natural gas as the primary field and very low-salfar No. 2 field oil as hackuffe life. The use of field oil is limited to 1,200 hours per year and only during the months of November through March, and is listed as a separate process. These units are listed as a combined source (all three units) for each type of	USE OF ONLY CLEAN-BURNING LOW-SULFUR FUELS AND GOOD COMBUSTION	0.01 LB/MMBTU	CTG NG OR CTG & DB NG	0.015	LB/MMBTU	CTG NG & DB OIL	0.03	LB/MMBTU	OR DB NG OR OIL
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	(3) TURBINE & amp; DUCT BURNER, COMBINED	GAS	1844.	3 MMBTU/H	fuel.	PRACTICES.	0.019 LB/MMBTU	average	0			0		
NC 0101	EODEVTH ENERGY PLANT	0,00,000	CYCLE, NAT GAS	NATURAL	1044	3 MMBTU/H	Each of these units have a natural gas-fired HRSG & a natural gas fired duet burner. Limits for this process	CLEAN BURNING LOW-SULFUR FUELS AND GOOD COMBUSTION PRACTICES	0.001 DAR (777)	2 ho						
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	TURBINE,	GAS	1844.	3 MMBTU/H	are for turbines and duet burners.	CLEAN FUELS - NATURAL GAS	0.021 LB/MMBTU	3-hr avg	0			1 0		\vdash
NJ-0074	WEST DEPTFORD ENERGY	5/6/2009	CYCLE	NATURAL GAS	1729	8 MMFT3/YR		AND ULTRA LOW SULFUR (15PPM SULFUR) DISTILLATE OIL	18.66 lb/hr	No pro-	0		wante	0		
NY-0095	CAITHNES BELLPORT ENERGY CENTER	5/10/2006	COMBUSTION TURBINE	NATURAL GAS	222	I MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	LOW SULFUR FUEL	0.0055 LB/MMBTU	NO DUCT BURNING	0.0066	LB/MMBTU	W/DUCT BURNING	0		
OK-0115	LAWTON ENERGY COGEN FACILITY	12/12/2006	COMBUSTION TURBINE AND DUCT BURNER					GOOD COMBUSTION PRACTICES	0.0067 LB/MMBTU		0			0		
OK-0117	PSO SOUTHWESTERN POWER PLT	2/9/2007	GAS-FIRED TURBINES COMBUSTION					USE OF LOW ASH FUEL (NATURAL GAS) AND EFFICIENT COMBUSTION	0.0093 LB/MMBTU		0			0		
			TURBINE & amp; HEAT RECOVERY				GE 7241FA TURBINE AND DUCT BURNER.									
OR-0041	WANAPA ENERGY CENTER	8/8/2005	STEAM GENERATOR	NATURAL GAS	2384.	I MMBTU/H	COMBUSTION TURBINE - 1,778.5 MMBTU/HR DUCT BURNER - 605.6 MMBTU/HR		0	SEE POLUTANT NOTE	0			0		

nr (11)	EACH ITV NOTE	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THEOLIGIPAT	THEOLIGIPATA	DDOCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1 UN		AVG TIME	EMISSION LIMIT 2	UNIT	AVG TIME	STANDARAD EMISSION LIMIT	UNIT	AVG TIM
	FACILITY NAME	DATE	COMBINED	JFUEL .	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1 UN	a1 (CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITI
			CYCLE NATURAL	-					(l								
			GAS-FIRED ELECTRIC						i l								
			GENERATING	NATURAL					į l				1				
0048	CARTY PLANT	12/29/2010	UNIT	GAS	286	6 MMBTU/H		CLEAN FUEL	2.5 LB	B/MMCF			0			0	
							Two combine cycle Turbines, each with a combustion turbine and heat recovery steam		i l								
			Combined-cycle				generator with duct burner. Each combined-cycle process will be rated at 468 MW or less.		i l								
	MOXIE LIBERTY		Turbines (2) -				The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the		i l	F	FOR 468 MW			FOR 454 MW			
0278	LLC/ASYLUM POWER PL T	10/10/2012	Natural gas fired	Natural Gas	327	7 MMBTU/H		content.	0.004 LB	/MMBTU F	POWERBLOCK	0.005	7 LB/MMBTU	POWERBLOCK		0	_
							GREEN POWER ONE WILL CONSIST OF TWO NOMINALLY RATED 35 MW GAS		i l								
							FIRED TURBINES AND TWO HEAT RECOVERY STEAM GENERATORS, EQUIPPED WITH 312 MMBTU/HR DUCT BURNERS. THE COMBUSTION TURBINES WILL		i l								
							ONLY BURN PIPELINE QUALITY SWEET NATURAL GAS. THE DUCT BURNERS		í l								
							WILL BURN NATURAL GAS, COMPLEX GAS OR MIXTURES OF NATURAL GAS		i l								
							AND COMPLEX GAS, STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX	THE USE OF PROPER COMBUSTION	í l								
			COGENERATION				WILL CONSUME APPROXIMATELY HALF OF THE ELECTRICAL OUTPUT	CONTROL AND FIRING ONLY	i l								
			TRAIN 2 AND 3				PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE	GASEOUS FUELS CONTAINING NO	í l								
	INEOS CHOCOLATE		(TURBINE AND DUCT BURNER	NATURAL			COMBUSTION TURBINES WILL BE SOLD TO THE GRID.	ASH IS BACT FOR PARTICULATE MATTER FROM THE GAS FIRED	í l								
0497	BAYOU FACILITY	8/29/2006	EMISSIONS)	GAS	,	5 MW	THE EMISSIONS ARE PER TRAIN.	TURBINES AND DUCT BURNERS.	10.03 lb/h	/hr		71.3	2 T/YR			0	
	DATE OF THE REAL PROPERTY.	0/2//2000	EMISSIONS) WESTINGHOUSE/	Turib					10.05 101			74.2	10.11				
			SIEMENS MODEL					STEAG POWER LLC REPRESENTS	í l								
	NACOGDOCHES POWER		SW501F GAS TURBINE W/416.5		1			THE FIRING OF PIPELINE NATURAL GAS IN THE COMBUSTION	(
	STERNE GENERATING		MMBTU DUCT	NATURAL				TURBINES AND DUCT FIRED HRSGS AS BACT FOR PM10.	į l				1				
1502	FACILITY	6/5/2006	BURNERS	GAS	19	0 MW		AS BACT FOR PM10.	26.9 lb/h	hr		275.	4 T/YR			0	
	CITY PUBLIC SERVICE JK SPRUCE ELECTRICE		SPRUCE POWER GENERATOR						į l				1				
516	GENERATING UNIT 2	12/28/2005	UNIT NO 2						264 lb/!	hr		52	5 T/YR			0	
		12.20/2003	1				The plant will be designed to generate 1,350 nominal megawatts of power. There are two										
			1				configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode (Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B	use low ash fuel (natural gas or low sulfur diesel as a backup) and good combustion	i l				1				
0590	KING POWER STATION	8/5/2010	Turbine	natural gas	135	0 MW	also includes one or two auxiliary boilers.	practices	11.1 lb/h	hr		10:	8 lb/hr			0	
	ICHANNEL ENERGY		Combined Cycle				The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a	Good combustion and the use of gaseous				19.	1	1			
0618	CENTER LLC	10/15/2012	Turbine	natural gas	18	0 MW	maximum design heat input of 475 MMBtwhr. natural gas-fired combined cycle turbine generator with a heat recovery steam generator	fuel	27 lb/ł	hr			0			0	_
			1				natural gas-fired combined cycle turbine generator with a heat recovery steam generator equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts		i l				1				
	DEER PARK ENERGY		Combined Cycle				and the DB will have a maximum design rate capability of 725 million British thermal units		į I .				1				
0619	CENTER	9/26/2012	Turbine	natural gas	18	0 MW	per hour	good combustion and use of natural gas	27 lb/ł	hr			0		-	0	_
	GATEWAY COGENERATION 1, LLC -		COMBUSTION				Burns primarily natural gas but has the capacity to burn up to 500 hours of ultra low sulfur	Clean-burning fuels and good combustion	į I .				1				
0319	SMART WATER PROJECT	8/27/2012	TURBINES, (2)	Natural Gas	59	3 MMBTU/H	diesel fuel (ULSD) as backup.	practices.	5 lb/l	hr	3 H AVG		0			0	
			GE 7FA														
			COMBUSTION TURBINE & amp;						í l								
			HEAT RECOVERY	4			THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL		í l								
	BP CHERRY POINT		STEAM	NATURAL			AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER	LIMIT FUEL TYPE TO NATURAL	í l								
-0328	COGENERATION PROJECT	1/11/2005	GENERATOR	GAS	17	4 MW	WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR.	GAS	0		1-hr average; Duct		0	1-hr average; Duct		0	*SEE NO
	Astoria Energy LLC		Combustion Turbine	Natural Gas	100	0 MW		Clean Fuel	0.0098 lb/N	MMBtu J	Burners On	1:	8 lb/hr	Burners On	1		
	Tenaska Partners LLC		Combustion Turbine	Natural Gas		7 MMBtu/hr		 	11.8 lb/h 0.0064 lb/h	hr		0.003	9 lb/MMBtu	_		-	_
	Hawkeye Generating, LLC Hawkeye Generating, LLC			Natural Gas Natural Gas	61	5 MW 5 MW			0.0063 lb/N	MMBtu		121.7 121.7	7 tpv				
	Liberty Electric Power, LLC				195	4 MMBtu/hr	With DB		28.1 lb/h	hr							
	Catoctin Power LLC		Combustion Turbine	Notural Gas	17	0 MW		Pipeline quality low sulfur NG; DLN combustion design	21.1 lb/h	One .	3-hr average						
	Gibson County Generation,		Compussion Turbine	Naturai Gas	17	JWW		comoustion design	21.1 10/1	ar 3	3-nr average						
	LLC		Combustion Turbine	Natural Gas	41	7 MW			0.0048 lb/N	MMBtu 2	24-hr average						
	York Energy Center Block 1					4 MMBtu/hr											
	Footprint Power Salem Harbor Development LP	I			15/	11111111111111			0.0141 lb/N		hourly basis		-	I be over a P			_
	Footprint Power Salem Harbor		Combustion Turbine	Natural Gas				Clean Fuel	0.0141 lb/.	1	1-hr average; Duct	0.006	2 lb/MMBtu	1-hr average; Duct Burners On	1		
	rootprint rower Salein Haroot		Combustion Turbine		34	6 MW		Clean Fuel	13 lb/h	/hr E	1-hr average; Duct Burners On 1-hr average; Duct	0.006	2 lb/MMBtu		1		
	Development LP		Combustion Turbine	Natural Gas	34			Clean Fuel Clean Fuel	0.0141 lb/h	/hr E	1-hr average; Duct Burners On	0.006	2 lb/MMBtu		1		
_	Development LP		Combustion Turbine	Natural Gas	344	6 MW			13 lb/h 0.041 lb/h	/hr E /MW-hr E	1-hr average; Duct Burners On 1-hr average; Duct Burners On		2 lb/MMBtu 8 lb/MMBtu	Burners On	i .		
	Development LP Kalama Energy Center		Combustion Turbine	Natural Gas Natural Gas	34i 34i 224'	6 MW 6 MW 7 MMBtu/hr			13 lb/h	1 E	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average				1		
	Development LP		Combustion Turbine	Natural Gas	34i 34i 224'	6 MW			13 lb/h 0.041 lb/h	1 E	1-hr average; Duct Burners On 1-hr average; Duct Burners On			Burners On	i		
	Development LP Kalama Energy Center Kalama Energy Center		Combustion Turbine Combustion Turbine Combustion Turbine	Natural Gas Natural Gas Natural Gas	34i 34i 224i 224i	6 MW 6 MW 7 MMBtu/hr 7 MMBtu/hr			13 lb/h 0.041 lb/h	1 E	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenConn Middletown LLC		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine	Natural Gas Natural Gas Natural Gas Natural Gas	34i 34i 224i 224i	6 MW 6 MW 7 MMBtu/hr			13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center		Combustion Turbine Combustion Turbine Combustion Turbine	Natural Gas Natural Gas Natural Gas	34i 34i 224i 224i	6 MW 6 MW 7 MMBtu/hr 7 MMBtu/hr			13 lb/h 0.041 lb/h	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenConn Middletown LLC PacifiCorp Energy		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 346 224 224 474.	6 MW 7 MMBtu/hr 7 MMBtu/hr 9 MMBtu/hr			13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenConn Middletown LLC PacifiCorp Energy PacifiCorp Energy		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT	e Natural Gas e Natural Gas e Natural Gas e Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474.4	6 MW 6 MW 7 MMBtu³hr 7 MMBtu³hr 9 MMBtu³hr			13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h 10.8 lb/h 14 lb/h	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenConn Middletown LLC PacifiCorp Energy PacifiCorp Energy Pioneer Valley		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474.4	6 MW 7 MMBtu/hr 7 MMBtu/hr 9 MMBtu/hr			13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h	hr E MW-hr E hr 3 y 1 hr a hr a whr a whr a whr a whMBtu	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average average			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenConn Middletown LLC PacifiCorp Energy PacifiCorp Energy Pioneer Valley Sevier Power Company Power		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474.	6 MW 7 MMBnu'hr 9 MMBnu'hr 9 MMBnu'hr 9 MW 7 MW			13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h 10.8 lb/h 14 lb/h	hr E MW-hr E hr 3 y 1 hr a hr a whr a whr a whr a whMBtu	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average 30-day rolling			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenConn Middletown LLC PacifiCorp Energy PacifiCorp Energy Pioneer Valley		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine	e Natural Gas e Natural Gas e Natural Gas e Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474.	6 MW 6 MW 7 MMBtu³hr 7 MMBtu³hr 9 MMBtu³hr			13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h 10.8 lb/h 14 lb/h	htr	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average 30-day rolling average 30-day rolling average			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenConn Middletown LLC PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy Pioner Valley Sevier Power Company Power Plant		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474.	6 MW 7 MMBnu'hr 9 MMBnu'hr 9 MMBnu'hr 9 MW 7 MW		Clean Fuel	13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h 10.8 lb/h 14 lb/h	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average average 30-day rolling average (WITH DUCT			Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenCoon Middletown LLC PseiffCoon Energy PseiffCoon Energy PseiffCoon Energy Psource Valley Sevier Power Company Power Plant WARREN COUNTY POWER		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474. 62 38 \$88	6 MW 6 MW 7 MMBtuhr 7 MMBtuhr 9 MMBtuhr 9 MMBtuhr 9 MW 7 MW	Emissions are for one of three units (Mitsubishi natural gas-fired combastion turbine (CT)	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 bh	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	8 lb/MMBtu	Burners On			
	Development LP Kalama Energy Center Kalama Energy Center Gen Conn Middletown LLC Pacific Corp Energy Pacific Corp Energy Pioneer Valley Sevier Power Company Power Plant WARREN COUNTY POWER PLANT - DOMINION		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474. 62 38 \$88	6 MW 7 MMBnu'hr 9 MMBnu'hr 9 MMBnu'hr 9 MW 7 MW	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Clean Fuel	13 lb/h 0.041 lb/h 17.1 lb/h 70 tpy 6 lb/h 10.8 lb/h 14 lb/h	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average average 30-day rolling average (WITH DUCT	0.006		Burners On			
	Development LP Kalama Energy Center Kalama Energy Center Kalama Energy Center Gen Conn Middletown LLC Pacific Corp Energy Pacific Corp Energy Pioner Valley Sevier Power Company Power Plant WARREN COUNTY POWER PLANT - DOMINION Woodbridge Energy Center (CPV Shore, LLC)		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474. 62 38 58	6 MW 6 MW 7 MMBtuhr 7 MMBtuhr 9 MMBtuhr 9 MMBtuhr 9 MW 7 MW	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 bh	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	8 lb/MMBtu	Burners On			
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	Development LP Kalama Energy Center Kalama Energy Center Kalama Energy Center Gen Conn Middletown LLC Pacific Corp Energy Pacific Corp Energy Pioner Valley Sevier Power Company Power Plant WARREN COUNTY POWER PLANT - DOMINION Woodbridge Energy Center (CPV Shore, LLC)		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474.1 622 38 58 299 280	6 MW 6 MW 7 MMBtuhr 7 MMBtuhr 9 MMBtuhr 9 MW 7 MW 0 MW	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 lish 10 0.041 lish 17.1 lish 17.1 lish 17.0 lish 17.1 lish 17.0 lish 18.1 lish 19.1	1	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	8 lb/MMBtu	Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenCoan Middletona LLC PacifiCorp Energy PacifiCorp Energy Pioner Valley Sevier Power Company Power Plant WARREN COUNTY POWER PLANT - DOMINION Woodbridge Energy Center (CPV Shore, LLC)		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474, 62 38 58 299 280 230	6 MW 6 MW 7 MMBtashe 7 MMBtashe 9 MMBtashe 9 MW 7 MW 0 MW 7 MW 0 MW 7 MW	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator. Model MS01 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 John John John John John John John John	he I he I he I had been I he I he I he I he I he I he I he I	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	8 lb/MMBtu	Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenCom Middletown LLC Pacificorn Energy Pacificorn Energy Pacificorn Energy Pioneer Valley Sevier Power Company Power Plant WARREN COUNTY POWER PLANT - DOMINION Woodlrodge Energy Center CPV Shore, LLC Woodlrodge Energy Center CPV Shore, LLC Hummel Station LLC		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE &, DUCT BURNER, 3 Combustion Turbine	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474. 62 38 58 299 290 230 225	6 MW 6 MW 7 MMBsahr 7 MMBsahr 9 MMBsahr 9 MW 0 MW 0 MW 0 MW 7 MMBsahr 7 MW 0 MW 7 MMBsahr 7 MMBsahr 4 MMBsahr 7 MMBsahr 7 MMBsahr 7 MMBsahr	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 John John John John John John John John	he I he I he I had been I he I he I he I he I he I he I he I	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	8 lb/MMBtu	Burners On			
	Development LP Kalama Energy Center Kalama Energy Center Commission of the Commissio		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE Samp; DUCT BURNER, 3	Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas	344 344 224 224 474. 62 38 58 299 290 230 225	6 MW 6 MW 7 MMBtashr 7 MMBtashr 9 MMBtashr 9 MW 7 MW 0 MW 7 MMBtashr 9 MW 7 MW 0 MW 7 MMBtashr 7 MW	Emissions are for one of three units (Misubishi natural gas-fired combustion turbine (CT) generator, Model MS0 I GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 John John John John John John John John	he I he I he I had been I he I he I he I he I he I he I he I	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	8 lb/MMBtu	Burners On			
	Development LP Kalama Energy Center Kalama Energy Center GenCom Middletown LLC Pacificorn Energy Pacificorn Energy Pacificorn Energy Pioneer Valley Sevier Power Company Power Plant WARREN COUNTY POWER PLANT - DOMINION Woodlrodge Energy Center CPV Shore, LLC Woodlrodge Energy Center CPV Shore, LLC Hummel Station LLC		Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine COMBUSTION TURBINE COMBUSTION TURBINE COMBUSTION TURBINE SAMP, DUCT BURNER, 3 Combustion Turbine Combustion Turbine Combustion Turbine	Natural Gas Natural Gas	344 344 224 224 474. 62 38 588 299 280 230 225 225	6 MW 6 MW 7 MMBsahr 7 MMBsahr 9 MMBsahr 9 MW 0 MW 0 MW 0 MW 7 MMBsahr 7 MW 0 MW 7 MMBsahr 7 MMBsahr 4 MMBsahr 7 MMBsahr 7 MMBsahr 7 MMBsahr	Emissions are for one of three units (Mitsubishi natural gas-fired combastion turbine (CT) generator, Model M501 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 John John John John John John John John	he I he I he I had been I he I he I he I he I he I he I he I	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	I IbMMBtu	Burners On			
	Development LP Kalama Energy Center Kalama Energy Center Center GenCom Middletown LLC PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy Wood Tool Company Power Plant WARREN COUNTY POWER PLANT - DOMINION Woodbraghe Energy Center (CPV Shore, LLC) Hammel Station LLC Glisson County Generation, LLC Glisson County Generation, LLC		Combustion Turbine Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine Combustion Turbine Combustion Turbine COMBINED CYCLE TURBINE &, DUCT BURNER, 3 Combustion Turbine	Natural Gas Natural Gas	344 344 224 224 474. 62 38 58 299 220 220 225 225	6 MW 6 MW 7 MMBtauhr 7 MMBtauhr 9 MMBtauhr 9 MW 7 MW 0 MW 6 MMBTU/H 7 MMBtauhr 7 MW 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 7 MW	generator/Model M501 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 lbsh 0.041 lbsh 0.041 lbsh 17.1 lbsh 10.8 lbsh 10.8 lbsh 10.8 lbsh 14 lbsh 14 lbsh 15 lbsh 15 lbsh 15 lbsh 16 lbsh 16 lbsh 16 lbsh 16 lbsh 17.3 lbsh 17.3 lbsh 18.1 lbsh	he I he I he I he I he I he I he I he I	1-hr average; Duct Burners On 1-hr average; Duct Burners On 3-hr average 12-mo rolling 30-day rolling average 30-day rolling average (WITH DUCT BURNER	0.006	8 lb/MMBtu	Burners On 3-hr average			
	Development LP Kalama Energy Center Kalama Energy Center Kalama Energy Center Gen Com Middletown LLC Pacific Energy Pacific Pa	6152015	Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine COMBUSTION TURBINE COMBUSTION TURBINE COMBUSTION TURBINE SAMP, DUCT BURNER, 3 Combustion Turbine Combustion Turbine Combustion Turbine	Natural Gas Natural Gas	344 344 224 224 474. 62 38 58 299 220 220 225 225	6 MW 6 MW 7 MMBauhr 7 MMBauhr 9 MMBauhr 9 MW 0 MW 0 MW 0 MMBTUH 7 MMBauhr 1 MMBauhr 1 MMBauhr 4 MMBauhr 4 MMBauhr 4 MMBauhr 4 MMBauhr	Emissions are for one of three units (Mitsuhishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 John John John John John John John John	he	1-th average; Doet Burners On 1-th average; Doet Burners On 1-th average; Doet the Burners On 1-th average Doet 12-mo rolling average 12-mo rolling average average (WITH DUCT BURNER ERRING)	0.006	I IbMMBtu	Burners On 3-hr average			
	Development LP Kalama Energy Center Kalama Energy Center Center GenCom Middletown LLC PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy WARREN COUNTY POWER PLANT - DOMINION WOOdfridge Energy Center CENTER - DOMINION CENTER - DOMINION CENTER - DOMINION WARREN COUNTY POWER PLANT - DOMINION WOOdfridge Energy Center CENTER - DOMINION CENTER - DOMINION CENTER - DOMINION Hummel Station LLC Glibban Caunty Generation, LLC York Energy Center Energy Center CENTER - DOMINION LLC WARREN COUNTY POWER Hummel Station LLC Glibban Caunty Generation, LLC York Energy Center Block 2		Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine COMBUSTION TURBINE COMBUSTION TURBINE COMBUSTION TURBINE SAMP, DUCT BURNER, 3 Combustion Turbine Combustion Turbine Combustion Turbine	Natural Gas Natural Gas	344 344 224 224 474. 62 38 58 299 228 230 225 225 41 2512	6 MW 7 MMBtauhr 7 MMBtauhr 9 MMBtauhr 9 MW NW 7 MW 0 MW 6 MMBTUH 7 MMBtauhr 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 7 MW	generator/Model M591 GAC). firing NG with duct burner	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13	he	1-th average; Doet Burners On the Bu	0.006	I IbMMBtu	Burners On 3-hr average			
	Development LP Kalama Energy Center Kalama Energy Center Center GenCom Middletown LLC PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy PacifiCorp Energy Wood Tool Company Power Plant WARREN COUNTY POWER PLANT - DOMINION Woodbraghe Energy Center (CPV Shore, LLC) Hammel Station LLC Glisson County Generation, LLC Glisson County Generation, LLC	6132013 6132013	Combustion Turbine Combustion Turbine Combustion Turbine Block 1 CT Block 2 CT Combustion Turbine COMBUSTION TURBINE COMBUSTION TURBINE COMBUSTION TURBINE SAMP, DUCT BURNER, 3 Combustion Turbine Combustion Turbine Combustion Turbine	Natural Gas Natural Gas	344 344 224 224 474. 62 38 58 299 228 230 225 225 41 2512	6 MW 6 MW 7 MMBtauhr 7 MMBtauhr 9 MMBtauhr 9 MW 7 MW 0 MW 6 MMBTU/H 7 MMBtauhr 7 MW 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 4 MMBtauhr 7 MW	generator/Model M501 GAC).	Clean Fuel Clean Fuel Oxidation catalyst and good combustion	13 lbsh 0.041 lbsh 0.041 lbsh 17.1 lbsh 10.8 lbsh 10.8 lbsh 10.8 lbsh 14 lbsh 14 lbsh 15 lbsh 15 lbsh 15 lbsh 16 lbsh 16 lbsh 16 lbsh 16 lbsh 17.3 lbsh 17.3 lbsh 18.1 lbsh	he	1-th average; Doet Burners On 1-th average; Doet Burners On 1-th average; Doet the Burners On 1-th average Doet 12-mo rolling average 12-mo rolling average average (WITH DUCT BURNER ERRING)	0.006	I IbMMBtu	Burners On 3-hr average			

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION			EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW			0.00	06 lb/MMBtu	1-hr average						1 1
	Shell Chemical										combustion						
	Appalachia/Petrochemicals										turbines with duct						1 1
	Complex	6/18/2015			664	MMBtu/hr	each of the combustion turbines with duct burners		0.000	66 lb/MMBtu	burners						

		IPERMIT ISSUANCE	1	PRIMARY				CONTROL METHOD	IEMISSION		IAVG TIME	IEMISSION		IAVG TIME	ISTANDARAD		IAVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			Combined-cycle				3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total										
	OKEECHOBEE CLEAN		electric generating				unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas.			GRAIN S/100 SC	F FOR NATURAL					'	1
FL-0356	ENERGY CENTER	3/9/2010	unit	Natural gas	309	MMBtu/hr per turbine	Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Use of clean fuels		2 GAS	GAS	0.0015	% S IN ULSD	FOR ULSD		0	
	DANIA BEACH ENERGY		2-on-1 combined													'	1
*FL-0363	CENTER	12/4/201	cycle unit (GE 7HA) Natural gas	400	MMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Clean fuels		0		(0	
			EUCCT (Combined cycle CTG with	1			A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The	Good combustion practices and the use of pipeline quality natural gas,								'	1
MI-0427	FILER CITY STATION	11/17/201	unfired HRSG)	Natural gas	1934.	MMBTU/H	turbine operates in combined-evele with an unfired heat recovery steam generator (HRSG). Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	combustion inlet air filter.	0.002	5 LB/MMBTU						0	
							Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat recovery steam generator (CTGHRSG).										
																'	1
			FGCTGHRSG (EUCTGHRSG1				Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H and HRSG duct burners are each rated at 800 MMBTU/H.	Conditional and in the single state of						HOURLY; EACH	,	'	1
	BELLE RIVER COMBINED		&				and HRSG duct burners are each rated at 800 MMB I U/H.	Good combustion practices, inlet air conditioning, and the use of pipeline			HOURLY; EACH			UNIT W/O DUCT		'	1
*MI-0435	CYCLE POWER PLANT	7/16/2013	EUCTGHRSG2)	Natural gas)	The HRSGs are not capable of operating independently from the CTGs.	quality natural gas.	1	6 LB/H	UNIT	12.2	LB/H	BURNER FIRING	i	0	
			Combined Cycle								AV OF THREE					'	1
			Combustion Turbine	2							ONE H STACK					'	1
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/10/2014	firing Natural Gas with Duct Burner	natural gas	400	h 6		USE OF NATURAL GAS A CLEAN BURNING FUEL	10	4 I B/H	TESTS EVERY 5	Ι,				,	1
NJ-0083	CENTER, LLC	//19/2010	with Duct Burner	naturai gas	400	n yr		CLEAN BURNING FUEL	10.	+ LD/II	I K	<u> </u>				1	
			Combined Cycle								AV OF THREE					'	1
1			Combined Cycle Combustion Turbine			1			1		ONE H STACK			1		1	1
1	MIDDLESEX ENERGY		firing Natural Gas			1		USE OF NATURAL GAS A	1		TESTS EVERY 5			1		1	1
NJ-0085	CENTER, LLC	7/19/2010	without Duct Burner	r Natural Gas	804	H/YR		CLEAN BURNING FUEL	4.	4 LB/H	YR	+		+	1	3	
			Combustion turbine											1		'	1
	CPV FAIRVIEW ENERGY		and HRSG without				Emission limits are for each turbine fueled by NG and operating without duct burner being	Low sulfur fuels and good								'	1
*PA-0310	CENTER CHOCOLATE BAYOU	9/2/2010	duct burner NG only	y Natural gas	-	1	fired and do not include startup/shutdown emissions.	combustion practices	0.006	8 LB/MMBTU	+	+ '		+	1	4	
	STEAM GENERATING		Combined Cycle	NATURAL												'	1
TX-0817	(CBSG) STATION MONTGOMERY COUNTY	2/17/201	Cogeneration	GAS NATURAL	51	MW	2 UNITS EACH 50 MW GE LM6000	PIPELINE NATURAL GAS, GOOI	6.9	8 LB/H						3	
*TX-0834	POWER STATIOIN	3/30/2013	Combined Cycle Turbine	GAS	263:	MMBTU/HR/UNIT	Two Mitsubishi M501GAC turbines (without fast start)	COMBUSTION	125.	7 TON/YR						0	1
			Four combined								AVE OVER						
*CO-0073	PUEBLO AIRPORT GENERATING STATION	7/22/2010	cycle combution turbines	natural gas	37	mmbtu/hr	Three GE, LMS6000 PF, natural gas-fired, combined cycle CTG, rated at 373 MMBtu per hour each, based on HHV and one (1) HRSG each with no Duct Burners	Use of pipeline quality natural gas and good combustor design	4	3 llb/hr	STACK TEST LENGTH						1
			Electric Generation				Two combined cycle combustion turbines followed by HRSGs with capability for supplemental	una good companos design	1	7 10111	HOURLY	T (1	
*IL-0112	NELSON ENERGY CENTER	12/28/2010	Facility	Natural Gas	22	MW each	fuel firing in HRSG for each combustion turbine using duct burners. EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS		0.01	2 LB/MMBTU	AVERAGE	-				3	─
			FOUR (4)				FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR									'	1
1			NATURAL GAS				IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE									1 '	1
			COMBINED CYCLE				CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN									'	1
	ST. JOSEPH ENEGRY		COMBUSTION	NATURAL			EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR	GOOD CUMBUSTION PRACTICE								'	1
*IN-0158	CENTER, LLC	12/3/2013	TURBINES	GAS	230	MMBTU/H	NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW. TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE	AND FUEL SPECIFICATION	1	8 lb/hr	3 HOURS	0.0078	LB/MMBTU	3 HOURS		3	
			2 COMBINED-				COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF	USE OF PIPELINE-QUALITY								'	1
			CYCLE				725 MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG)	NATURAL GAS EXCLUSIVELY			AVERAGE OF					'	1
*MD-0041	CPV ST. CHARLES	4/23/2014	COMBUSTION	NATURAL	72	MEGAWATT	EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST	AND GOOD COMBUSTION PRACTICE	0.01	1 LB/MMBTU	THREE STACK TEST RUNS						1
			2 COMBINED													1	
			CYCLE COMBUSTION													'	1
			TURBINES,					EXCLUSIVE USE OF PIPELINE								'	1
l	WILDCAT POINT		WITHOUT DUCT	NATURAL				QUALITY NATURAL GAS AND			3-HOUR BLOCK	l .					1
*MD-0042	GENERATION FACILITY	4/8/2014	FIRING 2 COMBINED	GAS	27/	MW		EFFICIENT TURBINE DESIGN	1	5 lb/hr	AVERAGE	+ (+		3	-
			CYCLE						1		1			1		1	1
1			COMBUSTION TURBINES,					EXCLUSIVE USE OF PIPELINE	1		AVERAGE OF 3			1		1	1
	WILDCAT POINT		WITHOUT DUCT	NATURAL				QUALITY NATURAL GAS AND			STACK TEST			1		1	1
*MD-0042	GENERATION FACILITY	4/8/2014	FIRING 2 COMBINED	GAS	27	MW		EFFICIENT TURBINE DESIGN	25.	l lb/hr	RUNS	1		+		9	
1			CYCLE											1		1	1
1			COMBUSTION TURBINES.					EXCLUSIVE USE OF PIPELINE	1		AVERAGE OF 3			1		1	1
1	WILDCAT POINT		WITHOUT DUCT	NATURAL				QUALITY NATURAL GAS AND			STACK TEST			1		1	1
*MD-0042	GENERATION FACILITY	4/8/201	FIRING	GAS	27	MW		EFFICIENT TURBINE DESIGN	25.	l lb/hr	RUNS	1				0	
1			Combined cycle				This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator (HRSG)		1		1			1		1	1
			combustion turbine				()		1		1			1		1	1
*MI-0402	SUMPTER POWER PLANT	11/17/201	w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator		0.006	6 LB/MMBTU	TEST	7.4	lb/hr	TEST	-	0	
			Combined cycle				This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator (HRSG).							1		1	1
l			combustion turbine	L		l			1 .		L		L			.]	1
*MI-0402	SUMPTER POWER PLANT	11/17/201	w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG		0.006	6 LB/MMBTU	TEST	7.4	lb/hr	TEST		1	
														1		1	1
			Natural gas fueled combined cycle				Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam							1		1 '	1
			combined cycle combustion turbine				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				EACH CTG;			EACH CTG;		1	1
l	MIDLAND COGENERATION	1	generators (CTG)	L.		l	to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a	L	1	.l	TEST		L	TEST		. '	1
*MI-0405	VENTURE	4/23/201	with HRSG	Natural gas	223	MMBTU/H	selective catalytic reduction (SCR) system. Throughput is 2,237 MMBTU/H for each CTG	Good combustion practices	0.00	6 LB/MMBTU	PROTOCOL	0.012	LB/MMBTU	PROTOCOL)	
														1		'	1
			Natural gas fueled				Equipment is permitted as following flexible group (FG):							1		1	1
1			combined cycle combustion turbine				FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				EACH CTG:			EACH CTG:		1	1
	MIDLAND COGENERATION		generators (CTG)				to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and a				TEST			TEST		1 '	1
°MI-0405	VENTURE	4/23/201	with HRSG	Natural gas	223	MMBTU/H	selective catalytic reduction (SCR) system.	Good combustion practices	0.00	6 LB/MMBTU	PROTOCOL	0.012	LB/MMBTU	PROTOCOL		اه	

		PERMIT ISSUANCE		PRIMARY	1	1		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD	I	AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES Natural gas fired CTG with DB for HKSG: 4 total.	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							Natural gas fired CTG with DB for HRSG; 4 total. Technology A (4 total) is 2587 MMBTU/H design heat input each CTG. Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
							Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG				TEST						
	THETFORD GENERATING		FGCCA or FGCCB- 4 nat. gas fired CTG			MMBTU/H heat input,	emission rates. Applicant will select one technology, installation is two sparate CTOTHESO trains driving one steam turbine electrical generator; Two 2XI Blocks. Each CTG will be rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up	Combustion air filters; efficient combustion control; low sulfur			PROTOCOL; (3 1- H TESTS IF						
*MI-0410	STATION	7/25/2013	w/ DB for HRSG	natural gas	258	7 each CTG	to 1,400 MW. Natural gas fired CTG with DB for HRSG; 4 total.	natural gas fuel.	0.003	LB/MMBTU	POSSIBLE)		0		(
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
			FGCCA or FGCCB-	_			Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG trains driving one steam turbine electrical generator; Two 2XI Blocks. Each CTG will be	Combustion air filters; efficient			TEST PROTOCOL (3 1-						
*MI-0410	THETFORD GENERATING STATION	7/25/2013	4 nat. gas fired CTG w/ DB for HRSG	natural gas	255	MMBTU/H heat input, 7 each CTG	rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up	combustion control; low sulfur natural gas fuel.	0.006	6 LB/MMBTU	H TESTS IF POSSIBLE)		0		١ ,		
-NII-0410	STATION	7/23/2013	W DB for fixed	naturai gas	238	/ each CTG	to 1,400 MW. Natural gas fired CTG with DB for HRSG; 4 total.	naturai gas iuci.	0.006	LD/MMD1U	POSSIBLE)		0		,		
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
							Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG				TEST						
	THETFORD GENERATING		FGCCA or FGCCB- 4 nat. gas fired CTG	 }		MMBTU/H heat input,	trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up	Combustion air filters, efficient combustion control, low sulfur			PROTOCOL (3 1- H TESTS IF						
*MI-0410	STATION	7/25/2013	w/ DB for HRSG	natural gas	258	7 each CTG	to 1,400 MW. Natural Gas Usage <= 33,691 MMft ² /yr	natural gas fuel.	0.006	6 LB/MMBTU	POSSIBLE)		0		(
	PSEG FOSSIL LLC		Combined Cycle Combustion Turbine	,			per 365 consecutive day period, rolling one day basis (per two turbines and two duct				AVERAGE OF						
*NJ-0081	SEWAREN GENERATING STATION	3/7/2014	-Siemens turbine without Duct Burner	Notural and	3266	1 MMCubic ft/yr	The heat input rate of each Siemens combustion turbine will be 2,356 MMBtu/hr(HHV)	USE OF NATURAL GAS A CLEAN BURNING FUEL		3 lb/hr	THREE ONE HOUR TESTS						
10-0081	STATION	3///2014	CYCLE	I Ivaturai gas	3303	i janarcubic it yi	The fieat input rate of each stelliers compassion turbine with be 2,350 sinvibiani (11117)	CLEAN BORNENG FOLE	1	J IONIA	HOUR ILSIS				,		
			COMBUSTION				Natural Gas Usage <= 33,691 MMft ^{^3} /yr										
			TURBINE WITHOUT DUCT				per 365 consecutive day period, rolling one day basis (per two turbines and two duct										
	PSEG FOSSIL LLC SEWAREN GENERATING		BURNER - GENERAL				burners) The heat input rate of each General Electric combustion turbine will be 2,312	Use of Natural Gas as a clean burning	g		AVERAGE OF THREE ONE						
*NJ-0081	STATION	3/7/2014	4 ELECTRIC	Natural Gas	3369	1 MMCF/YR	MMBtu/hr(HHV) Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	fuel	12.	7 lb/hr	HOUR TESTS AVERAGE OF		0				
	WEST DEPTEODD EVENSY		Combined Cycle				These limits are for each of the 4 turbines individually, while operating with the duct burners				THREE ONE						
*NJ-0082	WEST DEPTFORD ENERGY STATION	7/18/2014	Combustion Turbine without Duct Burner	r Natural Gas	2028	2 MMCF/YR	on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct burners. Two Mitsubishi 2932 MMBtuH combined cycle combustion turbines, both with 300	Use of natural gas a clean burning fuel	1	0 lb/hr	HOUR STACK TESTS		0				
			2 Combined Cycle				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
	OREGON CLEAN ENERGY		Combustion Turbines-Siemens,			MMSCF/rolling 12-	install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.							PER ROLLING 12			
*OH-0352	CENTER	6/18/2013	without duct burners	Natural Gas	51560	0 months	This process without duct burners.	clean burning fuel, only natural gas	13.	3 lb/hr		61.	3 T/YR	MONTHS			
			2 Combined Cycle Combustion				Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2 Mitsubishi not both (not determined)										
	OREGON CLEAN ENERGY		Turbines-Mitsubishi,	,			Short term limits are different with and without duet hurners							PER ROLLING 12	-		
*OH-0352	CENTER	6/18/2013	without duct burners		4791	7 MMSCF/rolling 12-MO	This process without duct burners. Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	clean burning fuel, only natural gas	11.	3 lb/hr		44.	2 T/YR	MONTHS			
	DUKE ENERGY HANGING		Turbines (4) (model GE 7FA) Duct	NATURAL			These limits are for each of the 4 turbines individually, while operating with the duct burners off. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Burning natural gas in an efficient						PER ROLLING 12			
*OH-0356	ROCK ENERGY MOXIE ENERGY	12/18/2012	2 Burners Off Combined Cycle	GAS	15	2 MW	burners.	combustion turbine	1:	5 lb/hr		87.	2 T/YR	MONTHS			
*PA-0286	LLC/PATRIOT GENERATION PLT	1/31/2013	Power Blocks 472 MW - (2)	Natural Gas		0	Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a combustion turbine and heat recovery steam generator with duet burner. The Permittee shall select and install any of the turbine options listed below (or newer versions		0.005	7 LB/MMBTU		5	4 T/YR	TOTAL PM			
							The retrinited shall select and install any of the furtine opions issed below (or newer versions of these turbines if the Department determines that such newer versions achieve equivalent or better emissions rates										
							and exhaust parameters) 1. General Electric 7FA (GE 7FA)										
			COMBINED				Siemens SGT6-5000F (Siemens F) Mitsubishi M501G (Mitsubishi G)										INCLUDING
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	CYCLE UNITS #1 and #2	Natural Gas	1	4 MMCF/HR	Siemens SGT6-8000H (Siemens H) The emissions listed are for the Siemens SGT6-8000H unit.		18	lb/hr W/ DUCT BURNER		l ,	l lb/hr WITHOUT		62.89	T/YR 12-MONTH ROLLIN	STARTUP AND SHUTDOWN
171-0271	BERKS HOLLOW ENERGY	41231201	Turbine, Combined	Tuturu Cus		- Inner inc	The chassos face are for the stellars series of the country and		10.	DOMINER	12-MONTH ROLLING		I III WILLIOUT		02.07	ROLLIN	JAIO I DO III.
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Turbine, Combined Cycle, #1 and #2	Natural Gas	304	6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst		48.5	5 TPY	TOTAL	1	0 lb/hr				
	BERKS HOLLOW ENERGY		Turbine, Combined								12-MONTH ROLLING						
*PA-0296	ASSOC LLC/ONTELAUNEE FGE TEXAS POWER I AND	12/17/2013	3 Cycle, #1 and #2	Natural Gas		6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst Four (4) Alstorn GT24 CTGs, each with a HRSG and DBs, max design capacity 409	Low sulfur fuel, good combustion	48.50	6 TPY	TOTAL		0		(
*TX-0660	FGE TEXAS POWER II	3/24/2014	4 Alstom Turbine	Natural Gas	230	7 MW	MMBtu/hr	practices	+	PPMVD			0				
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY	7/16/2014	4 Combustion Turbine	natural gas	8	7 MW	The exhaust heat from the turbine will be used to heat a heating medium which is used to regenerate rich amine from the acid gas removal system.		15.2	2 lb/hr			0				
*TX-0689	CEDAR BAYOU ELECTRIC GENERATION STATION	8/29/2014	Combined cycle natural gas turbines	Natural Gas	22	5 MW		Good combustion practices, natural] .						,		
*TX-0698	BAYPORT COMPLEX		(4) cogeneration turbines	natural gas		0 MW	(4) GE 7EA turbines providing power and process steam			0			0				
13.0030	SAND HILL ENERGY	9/3/201	Natural gas-fired combined cycle		1		TOTALING POTES MAN PROCESS ACCUSE										
*TX-0709	CENTER CENTER	9/13/2013	turbines	Natural Gas	173	9 MW			1	0			0				
	TRINIDAD GENERATING		combined cycle				The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion turbine nominally rated at 497 megawatts (MW) equipped with a HRSG and DB with a maximum design capacity of 402 million British thermal units per hour (MMBuuhr). The										
*TX-0712	FACILITY	11/20/2014	turbine Combined-cycle gas	natural gas	49	7 MW	gross nominal output of the CTG with HRSG and DB is 530 MW.		+ '	0	-		0	1			
*TV 0730	COLORADO BEND ENERGY CENTER		turbine electric			o MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	afficient combustion, natural 6		3 lb/hr							
*TX-0730	CENTER	4/1/2015	generating facility	natural gas	110	0 MW	UE /IIA.02	efficient combustion, natural gas fuel	1 4	o juo/nr			VI.			1	

		PERMIT ISSUANCE		IPRIMARY			invenergy, EEC - Anegheny County Energy	CONTROL METHOD	IFMISSION		LAVC TIME	IEMISSION		LAVCTIME	ISTANDARAD		IAVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME		THROUGHPUT	THROUGHPUT UNIT PI	ROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/2015	Combined-cycle ga turbine electric generating facility	natural gas	1100	MW G	ombined cycle power plant that uses two combustion turbines and one steam turbine, model iE 7HA.02	efficient combustion, natural gas fuel	4	3 lb/hr							
	EAGLE MOUNTAIN STEAM		Combined Cycle Turbines (>25 MW) – natural			Tv Si	wo power configuration options authorized iemens âc* 231 MW + 500 million British thermal units per hour (MMBtwhr) duct burner										
*TX-0751	ELECTRIC STATION	6/18/2015	gas Combined Cycle	natural gas	210	Tv	IE ‰ 210 MW + 349.2 MMBtu/hr duct burner wo power configuration options authorized		35.47	7 lb/hr		81.8	T/YR			0	
*TX-0767	LON C. HILL POWER STATION	10/2/2015	COMBUSTION	natural gas	195	MW G	iemens â€" 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner iE â€" 195 MW + 670 MMBtu/hr duct burner	Good combustion practices and use of pipeline quality natural gas	16	5 lb/hr	3 H	109.:	TPY	3 H		0	
*VA-0321	BRUNSWICK COUNTY POWER STATION	3/12/2013	TURBINE GENERATORS, (3 COMBUSTION	8) Natural Gas	3442	MMBTU/H (n	hree (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners attural gas-fired).	Low sulfur/carbon fuel and good combustion practices.	0.0033	LB/MMBTU	AVG/WITHOUT DUCT BURNING 3 H	9.	7 lb/hr	AVG/WITHOUT DUCT BURNING 3 H	,	D	
*VA-0321	BRUNSWICK COUNTY POWER STATION INTERNATIONAL STATION		TURBINE GENERATORS, (3 GE LM6000PF-25		1	MMBTU/H (n	hree (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners attural gas-fired).	Low sulfur/carbon fuel and good combustion practices.	1	LB/MMBTU	AVG/WITHOUT DUCT BURNING 3-HOUR AVERAGE	9.	7 lb/hr	AVG/WITHOUT DUCT BURNING		0	
AK-0071	POWER PLANT	12/20/2010	Turbines (4)	Natural Gas	59900	hp ISO To	urbine-duct burner pairs exhaust through common stack	Good Combustion Practices Combustion Turbines EU IDs 5-8 use	0.0066	LB/MMBTU	AVERAGE					D	⊢—
	INTERNATIONAL STATION						U IDs 5-8 Combined Cycle Natural Gas-fired Combustion Turbines rated at 59,900 hp (44.7	combustion Furnines EU IDS 3-8 use good combustion practices involve increasing the residence time and excess oxygen to ensure complete combustion which in turn minimize particulates without an add-on									
AK-0073	POWER PLANT	12/20/2010	Fuel Combustion	Natural Gas	59900		O IDS 3-9 Combined Cycle Natural Gas-fred Combustion Furbines rated at 39,300 np (44.7 fW)	CONTROL TECHNOLOGY. USE PUBLIC UTILITY	0.0066	LB/MMBTU	3-HOUR	-				0	
	BLYTHE ENERGY PROJECT		2 COMBUSTION	NATURAL				COMMISSION QUALITY NATURAL GAS W/ SULFUR CONTENT LESS THAN OR EQUAL TO 0.5 GRAINS PER 100									
CA-1144	П	4/25/2001	TURBINES COMBUSTION TURBINE #2	GAS	170	MW E.	ACH TURBINE WILL PRODUCE 170 MW	SCF		b lb/hr		6	T/YR			D.	
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	(NORMAL OPERATION, NO DUCT BURNING)	NATURAL GAS	154	MW 15	54 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS	10	2 lb/hr	PUC QUALITY NATURAL GAS					0	
	VICTORVILLE 2 HYBRID		COMBUSTION TURBINE #1 (NORMAL OPERATION, NO								12-MONTH ROLLING AVG						
CA-1191	POWER PROJECT	3/11/2010	DUCT BURNING COMBUSTION TURBINE #1	Natural Gas	154	MW 15	54 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS	10	2 lb/hr	BURNING)		0			0	
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	OPERATION, NO DUCT BURNING	NATURAL GAS	180	MW		USE PUC QUALITY NATURAL GAS	8.91	l lb/hr	12-MONTH ROLLING AVG					0	
			COMBUSTION TURBINE #2 (NORMAL														
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	OPERATION, NO DUCT BURNING	GAS GAS	180	MW		USE PUC QUALITY NATURAL GAS USE PIPELINE QUALITY NATURAL GAS, OPERATE DUCT	8.91	lb/hr	12-MONTH ROLLING AVG	-)			D	
CA-1198	MORRO BAY POWER PLANT	9/25/2008	COMBUSTION TURBINE GENERATOR	NATURAL GAS	180	MW		BURNERS NO MORE THAN 4000 HRS PER YEAR (12-MONTH ROLLING AVG BASIS)		l lb/hr	6-HR ROLLING AVG (NO DUCT BURNING)	13.:	lb/hr	6-HR ROLLING AVG (W/ DUCT BURNING)		D	
CA-1211	COLUSA GENERATING STATION	2/11/2011	COMBUSTION TURBINES (NORMAL OPERATION)	NATURAL GAS	122		WO (2) NATURAL GAS FIRED TURBINES AT 172 MW EACH. BOTH TURBINES QUIPPED WITH A 688 MMBTU/HR DUCT BURNER AND HRSG.	USE NATURAL GAS	12.4	i llb/hr	STACK TEST						
	PALMDALE HYBRID		COMBUSTION TURBINES (NORMAL	NATURAL		T'A'G	WO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATED IT 154 MEGAWATT (MW, GROSS) EACH, TWO HEAT RECOVERY STEAM SENERATORS (HRSG), ONE STEAM TURBINE GENERATOR (STG) RATED AT 267 IW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH	USE PUC QUALITY NATURAL			9-HR AVG (NO	,	,	9-HR AVG (W/	,		
CA-1212	POWER PROJECT	10/18/2011	OPERATION) NATURAL-GAS FIRED,	GAS	154		SSOCIATED HEAT-TRANSFER EQUIPMENT	GAS NATURAL GAS QUALITY FUEL		LB/MMBTU	DUCT BURNING	0.004	LB/MMBTU	DUCT BURNING		0	
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	5/2/2006	COMBINED- CYCLE TURBINE SIEMENS SGT6-	NATURAL GAS	300		INE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING ACILITY.	ONLY AND GOOD COMBUSTION CONTROL PRACTICES.		LB/MMBTU		10	% OPACITY			D	
			5000F COMBUSTION TURBINE #1 AND				HROUGHPUT IS FOR TURBINE ONLY WHEN FIRING NATURAL GAS										
	KLEEN ENERGY SYSTEMS,		#2 (NATURAL GAS FIRED) WITH 445 MMBTU/HR NATURAL GAS	NATURAL		D	URBINE: 2136 MMBTU/HR (2.095 MMCF/HR) UCT BURNER: 445 MMBTU/HR (0.436 MMCF/HR) MISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS,				W/OUT DUCT			W/ DUCT			
CT-0151	LLC	2/25/2008	DUCT BURNER	GAS	2.1	MMCF/H N	OT COMBINED. 117 MMBTU/HR FUEL OIL.		11	l lb/hr	BURNER	15.:	lb/hr	BURNER		0	
	FPL WEST COUNTY		COMBINED CYCLE COMBUSTION GAS TURBINES -	NATURAL		W TI SS G M TI	ACH COMBINED CYCLE UNIT SYSTEM (TWO & kalpuc, & kalpuc, Alaque), Alaque, Alaque, Alaque, Alul CONSIST OF THREE NOMINA 2.50 MEGAWAT MODEL 5016 (EAU RUBENE-ELECTRICAL GENERATOR SETS WITH EVAPORATIVE INLET COOLING YSTEMS, THREE SUPPLEMENTARY-PIERD HEAT RECOVERY STEAM, STEMS SUPPLEMENTARY-PIERD HEAT RECOVERY STEAM, SENSEM STEMS AL STEMS A										
FL-0286 FL-0303	FPL WEST COUNTY ENERGY CENTER UNIT 3		THREE NOMINAL 250 MW CTG (EACH) WITH SUPPLEMENTAR			CO CO IN ST RI	TEAM-ELECTRICAL GENERATOR. UCHLEAT NPUT EATE (LHY) OIL2,117 MMBTUH OMBINED CYCLE UNIT 3 WILL CONSIST OF: THREE NOMINAL 250 MW OMBUSTION TURBEN-ELECTRICAL GENERATORS (CTG) WITH EVAPORATIVE NLET COOLING SYSTEMS: THREE SUPPLEMENTARY-FIRED HEAT RECOVERY TEAM GENERATORS (HRSG) WITH SELECTIVE CALATUTE REDUCTION (SCR) EACTORS AND A COMMON NOMINAL 500 MW STEAM-ELECTRICAL ENFERATOR.			2 GR/100 SCF GAS		0.001:	PERCENT (FUEL	L		0	
12-0303	CANE ISLAND POWER	7/30/2008	300 MW COMBINED CYCLE COMBUSTION	NATURAL	2333	MINIDIUM G	LEVERATOR.	FUEL SPECIFICATIONS : 2 GR		GR S/100 SCF GAS		0.001	(OL)		'		
FL-0304	PARK	9/8/2008	TURBINE	GAS	1860	MMBTU/H		S/100 SCF OF GAS	:	GAS		10	OPACITY			D	

	I	IPERMIT ISSUANCE	I	IPRIMARY		I	I	CONTROL METHOD	IEMISSION	1	IAVG TIME	TEMISSION		IAVG TIME	ISTANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							Basis for the emission standard is either NSPS Subpart KKKK or Department BACT										
							determinations. The BACT emission standards for NOX while operating in combined cycle are more stringent										
			Combine cycle				than the corresponding Subpart KKKK emissions standards of 15 and 42 ppmvd @15% O2 on			GR S/100 SCF OF							
FL-0337	POLK POWER STATION	10/14/2012	power block (4 on 1) natural gas	1160	MW	a 30-day rolling average for natural gas and fuel oil, respectively.	work practices USE OF CLEAN BURNING FUEL		2 GAS		0.001:	S FUEL OIL			4	
			GAS TURBINES -					USE OF CLEAN BURNING FUEL AND GOOD COMBUSTION			HOURLY			ANNUAL			NOT
LA-0192	CRESCENT CITY POWER	6/6/200	187 MW (2)		2006	MMBTU/H		PRACTICES WHILE FIRING NATURAL GAS:	29.	4 lb/hr	MAXIMUM	128	T/YR	MAXIMUM)	AVAILABLE
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					WHILE FIRING NATURAL GAS:									
								USE OF PIPELINE QUALITY NATURAL GAS AND GOOD									
								COMBUSTION PRACTICES									
			COMBINED														
			CYCLE TURBINE				TURBINES ALSO PERMITTED TO BURN NO. 2 FUEL OIL AND ULTRA LOW SULFUR	WHILE FIRING FUEL OIL: USE									
	NINEMILE POINT ELECTRIC GENERATING		GENERATORS (UNITS 6A & amp;	NATURAL			DIESEL.	OF ULTRA LOW SULFUR FUEL OIL AND GOOD COMBUSTION			HOURLY AVERAGE W/O			HOURLY AVERAGE W/			
LA-0254	PLANT	8/16/2011	(UNITS 6A & amp;	GAS	7146	MMBTU/H	FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR.	PRACTICES	26.2	3 lb/hr	DUCT BURNER	33.10	lb/hr	DUCT BURNER		,	
			COGENERATION				EACH COGEN TRAIN CONSISTS OF A 50 MW GE LM6000 PF SPRINT TURBINE AND A HEAT RECOVERY STEAM GENERATOR EQUIPPED WITH A 70 MM BTU/HR	USE OF NATURAL GAS AS FUEL	-		1				1		
LA-0256	COCENTED LETON DE LATE	12// 2011	TRAINS 1-3 (1-10,	NATURAL		NO CONTURY	A HEAT RECOVERY STEAM GENERATOR EQUIPPED WITH A 70 MM BTU/HR DUCT BURNER	AND GOOD COMBUSTION PRACTICES	2.7	llb/br	HOURLY MAXIMUM	I .					
LA-0256	COGENERATION PLANT	12/6/201	2-10, 3-10) Combined Cycle	GAS	4/3	MMBTU/H	DUCT BURNER.	PRACTICES	3./.	2 lib/hr	MAXIMUM	 	,		+'	+	
			Refrigeration														
	SABINE PASS LNG		Compressor					Good combustion practices and			HOURLY						
LA-0257	TERMINAL	12/6/2011	Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4 Each of these units have a natural gas-fired heat recovery	fueled by natural gas	2.00	8 lb/hr	MAXIMUM	1)		+		
							steam generator and a natural gas-fired duct burner. Each										
							CT combusts natural gas as the primary fuel and very low-										
I			TURDAN	1			sulfur No. 2 fuel oil as a backup fuel. The use of fuel			1							
I			TURBINE, COMBINED	1			oil is limited to 1,200 hours per year and only during the months of November through March, and is listed as a	USE OF ONLY CLEAN-BURNING	.	1							
I			CYCLE,	1			separate process. These units are listed	LOW-SULFUR		1							
I			NATURAL GAS,	NATURAL	1	1	as a combined source (all three units) for each type of	FUELS AND GOOD		1	based on 3-hour	1	1			1	1
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	(3)	GAS	1844.3	MMBTU/H	fuel.	COMBUSTION PRACTICES. CLEAN FUELS - NATURAL GAS	0.01	LB/MMBTU	average	+	4	+	+	4	-
			TURBINE					AND ULTRA LOW SULFUR									
I			COMBINED	NATURAL	1	1		(15PPM SULFUR) DISTILLATE		1		1	1			1	1
NJ-0074	WEST DEPTFORD ENERGY	5/6/2009	CYCLE	GAS	17298	MMFT3/YR		OIL	18.6	6 lb/hr		1			4	4	
NY-0095	CAITHNES BELLPORT ENERGY CENTER	£/10/200	COMBUSTION TURBINE	NATURAL GAS		MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	TOW CHI FUR FUEL	0.005	LB/MMBTU	NO DUCT BURNING	0.000	LB/MMBTU	W/DUCT BURNING		J	1
NY-0095	ENERGY CENTER	5/10/2006	LUKBINE	UAS	2221	MMBU1/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	LOW SULFUR FUEL USE OF LOW ASH FUEL	0.005	LB/MMBTU	DUKNING	0.006	LB/MMBTU	BURNING	+		1
	PSO SOUTHWESTERN		GAS-FIRED					(NATURAL GAS) AND									
OK-0117	POWER PLT	2/9/2007	TURBINES					EFFICIENT COMBUSTION	0.009	LB/MMBTU						,	
			CYCLE														
			COGENERATION	NATURAL													
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	>25MW COMBINED	GAS	1882	MMBTU/H	SIEMENS V84.3A	NATURAL GAS FUEL	6.5	9 lb/hr	3-H AVG	0.003:	LB/MMBTU	24-H AVG)	
			COMBINED														
			CYCLE NATURAL GAS-FIRED	-													
			ELECTRIC														
			GENERATING	NATURAL													
OR-0048	CARTY PLANT CITY PUBLIC SERVICE JK	12/29/2010	SPRUCE POWER	GAS	2866	MMBTU/H		CLEAN FUEL	2.:	5 LB/MMCF		-				4	
	SPRUCE ELECTRICE		GENERATOR														
TX-0516	GENERATING UNIT 2	12/28/2005	UNIT NO 2						26-	4 lb/hr		52:	T/YR		1	ار	
							The plant will be designed to generate 1,350 nominal megawatts of power. There are two										
							configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode (Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B	use of low ash fuel (natural gas or low									
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural gas	1350	MW	(Scenario A) or four GE Frame /FA C TGs in combined cycle mode (Scenario B). Scenario B	use of low ash fuel (natural gas or low sulfur diesel as a backup)	W 11	l llb/br		19:	lb/br			,	
130 0370	ALIGIO WER DIVINO	0.0.2010	T di bine	maturur gus	1330		also includes one or two auxiliary boilers. (2) GE7FA at 195 MW each,	saira areser as a backup)	1			12.0	7,107.11		—		
							(1) steam turbine at 200 MW.										
TX-0600	THOMAS C. FERGUSON POWER PLANT	0/1/2011	Natural gas-fired turbines	natural gas	200	MW	Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which	-ittt	33.4	11.4.		Ι.	J				
	CHANNEL ENERGY	9/1/2011	Combined Cycle	naturar gas	3,0	ar w	provides steam for the steam turbine. The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a	pipeline quality natural gas good combustion and the use of	33.4.) IO/III	1-11	· ·	1		+		
TX-0618	CENTER LLC	10/15/2012		natural gas	180	MW	maximum design heat input of 475 MMBtu/hr	gaseous fuel	2	7 lb/hr		1)	
							natural gas-fired combined cycle turbine generator with a heat recovery steam generator										
	DEER PARK ENERGY		Combined Cycle				equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts and the DB will have a maximum design rate capability of 725 million British thermal units	good combustion and the use of									
TX-0619	CENTER	9/26/2012	Turbine	natural gas	180	MW	per hour	natural gas	2	7 lb/hr		1 .			1	,	
I			1	1	1	1	The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a			1		1	1			1	1
I			Combined cycle gas	. [maximum base-load electric power output of approximately 195 megawatts (MW). The steam turbine is rated at approximately 235 MW. This project also includes the installation of two	good combustion and natural gas as		1							
TX-0620	ES JOSLIN POWER PLANT	9/12/2012	2 turbine	natural gas	195	MW	emergency generators, one fire water pump, and auxiliary equipment. No duct burners.	fuel	1	8 lb/hr	PER TURBINE	<u> </u>	<u> </u>		1	<u> </u>	
			COMBINED								3 HR AVG.			3 HR. AVG.			
I	WARREN COUNTY POWER		CYCLE TURBINE & amp; DUCT	1			Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Natural Gas only, fuel has maximum		1	(WITHOUT DUCT BURNER			(WITH DUCT BURNER			
VA-0315	PLANT - DOMINION	12/17/2010	BURNER, 3	Natural Gas	2996	MMBTU/H	emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (C.1) generator, Model M501 GAC).	Natural Gas only, fuel has maximum sulfur content of 0.0003% by weight.	.] .	8 lb/hr	FIRING)	1.	lb/hr	FIRING)		ار	1
	GATEWAY	12.17/2010			2990				1	T	1	†	T	1	1		1
L	COGENERATION 1, LLC -		COMBUSTION	L	1	L	Burns primarily natural gas but has the capacity to burn up to 500 hours of ultra low sulfur	Clean-burning fuels and good		.l	L	1	.[.1	1
VA-0319	SMART WATER PROJECT	8/27/2012	TURBINES, (2)	Natural Gas	593	MMBTU/H	diesel fuel (ULSD) as backup.	combustion practices.	+	5 llb/hr	3 H AVG	1	1	-	+	+	-
I			COMBUSTION	1	1	1				1		1	1			1	1
I			TURBINE & amp;						1	1	1	1					
I	RP CHERRY POINT		HEAT RECOVERY	1	1	1	THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL			1		1	1			1	1
WA-0328	BP CHERRY POINT COGENERATION PROJECT	1/11/2004	STEAM GENERATOR	NATURAL	17/	MW	AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR.	LIMIT FUEL TYPE TO NATURAL	1 .			1 .	1			J	*SEE NOTES
	CHEYENNE PRAIRIE		Combined Cycle	GAB.			WILLIAM EARING WITHOUT OF 103 MINIDIOTIK.	Sar Kar	T	1	3-HOUR	!	1	CALENDAR	+ '		SZE NOTES
*WY-0070	GENERATING STATION	8/28/2012	Turbine (EP01)	Natural Gas	40	MW		good combustion practices	1	4 lb/hr	AVERAGE	17.:	TONS	YEAR		4	
								GL . F. I		8 Ib/MMBtu	1-hr average; Duct	12.5		1-hr average; Duc	ı		
	Astoria Energy LLC		Combustion Turbine	Natural Gas	1000	MW		Clean Fuel	0.009	S III/MMBtu	Burners Off	12.9	ID/nr	Burners Off	+		
I	Tenaska Partners LLC		Combustion Turbine	Natural Gas	3147	MMBtu/hr			11.3	8 lb/hr	1	0.003	lb/MMBtu				
	Hawkeye Generating, LLC			Natural Gas	615	MW			0.006	lb/MMBtu		121.7	tpy				
	Liberty Electric Power, LLC		_	_	1954	MMBtu/hr	Without DB		22.	6 lb/hr		_	_	1			
		1		+	1954	MMBtu/hr	With DB		28.	l lb/hr	1			+	+	+	+
	Liberty Electric Power, LLC									1							1
	Liberty Electric Power, LLC Gibson County Generation, LLC		Combustion Turbine	Natural Gas	417	MW			0.004	8 lb/MMBtu	24-hr average						
	Gibson County Generation, LLC York Energy Center Block 1		Combustion Turbine	Natural Gas	417 1574	MW MMBtu/hr			0.004 0.014	B lb/MMBtu l lb/MMBtu	24-hr average hourly basis						
	Gibson County Generation, LLC York Energy Center Block 1 Footprint Power Salem Harbor				1574	MMBtu/hr			0.014	l lb/MMBtu	hourly basis 1-hr average; Duct			1-hr average; Duc	t		
	Gibson County Generation, LLC York Energy Center Block 1		Combustion Turbine	Natural Gas	1574	MW MMBtu/hr MW		Clean Fuel	0.014	8 lb/MMBtu 1 lb/MMBtu 8 lb/hr	hourly basis	0.007	l lb/MMBtu	1-hr average; Duc Burners Off	t		

-		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	IEMISSION		AVG TIME	STANDARAD		AVG TIME
DDI CID	EACH PEV NAME				THEOLICHBUT	THEOLICIPUT UNIT	BROCESS NOTES			UNIT			UNIT		EMISSION LIMIT		
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMITI	JUNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	MMBtu/hr				5 lb/hr							
											30-day rolling						
	PacifiCorp Energy		Block 1 CT	Natural Gas					10.8	8 lb/hr	average						
								1			30-day rolling						
	PacifiCorp Energy		Block 2 CT	Natural Gas	629	MW			14	4 lb/hr	average						
								1									
	Pioneer Valley		Combustion Turbine	Natural Gas	387	MW			0.004	4 lb/MMBtu							
			COMBINED														
			CYCLE TURBINE								(W/O DUCT						
	WARREN COUNTY POWER	1	& DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Oxidation catalyst and good			BURNER						
	PLANT - DOMINION		BURNER, 3	Natural Gas	2996	MMBTU/H	generator, Model M501 GAC).	combustion practices.	15.5	5 lb/hr	FIRING)	0.0052	lb/MMBtu				
	Woodbridge Energy Center																
	(CPV Shore, LLC)			Natural Gas	2,307	MMBtu/hr			12.1	l lb/hr							
	Hummel Station LLC		Combustion Turbine	Natural Gas	2,254.00	MMBtu/hr			17.3	3 lb/hr							
	Hummel Station LLC		Combustion Turbine	Natural Gas	2,254.00	MMBtu/hr			14	4 lb/hr							
	Gibson County Generation,																
	LLC		Combustion Turbine	Natural Gas	417	MW						0.0088	lb/MMBtu	24-hr average			
											average of 3 test						
1	York Energy Center Block 2	6/15/2015	5		2512.5	MMBtu/hr	firing NG without duct burner	1	10.3	7 lb/hr	runs		1		1	l	1

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	PROGRES NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	TINEE.	AVG TIME CONDITION
RBLCID	KILLINGLY ENERGY	DATE	Natural Gas w/Duct	FUEL	THROUGHPUT	THROUGHPUT UNII		DESCRIPTION	i		CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
CT-0161	CENTER ST. CHARLES POWER	6/30/2017	Firing SCPS Combined	Natural Gas	26	39 MMBtu/hr	Duct burner MRC is 946 MMbtu/hr	Good Combustion Good combustion practices and clean	0	005 LB/MMBTU	HOURLY		0)	
LA-0313	STATION	8/31/2016	Cycle Unit 1A	Natural Gas	363	25 MMBTU/hr		burning fuels (natural gas)	1	7.52 LB/H	MAXIMUM	73	35 T/YR)	
I A-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Combined Cycle Unit 1B	Natural Gas	36	25 MMBTU/hr		Good combustion practices and clean burning fuels (natural gas)		7 52 I B/H	HOURLY MAXIMUM	73	35 T/VR	ANNUAL MAYIMUM		,	
LA-0313	STATION	8/31/2010	Cycle Ollit 1B	Natural Gas	30.	23 MINID I CAR		outning tues (natural gas)	·	7.52 1.15/11	MAAIMOM	19	33 171K	MAXIMOM		1	
							There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the flexible group FGCTGHRSG. The total hours for startup and shutdown for each train shall not										
							exceed 500 hours per 12-month rolling time period.				TEST						
			FGCTGHRSG (2 Combined Cycle				The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both	Good combustion practices, inlet air conditioning, and the use of pipeline			PROTOCOL WILL SPECIFY						
MI-0423	INDECK NILES, LLC	1/4/2017	CTGs with HRSGs) FGCTGHRSG (2	Natural gas	833	22 MMBTU/H	trains.	quality natural gas.		19.8 LB/H	AVG TIME		0)	
			Combined cycle														
	HOLLAND BOARD OF		CTGs with HRSGs; EUCTGHRSG10				Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG).				TEST PROTOCOL						
	PUBLIC WORKS - EAST 5TH STREET		&				The total hours for both units combined for startup and shutdown shall not exceed 635 hours	Good combustion practices and the use of	of	014 LB/MMBTU	WILL SPECIFY AVG TIME						
MI-0424	STREET	12/5/2016	EUCTGHRSG11) FG-TURB/DB1-3 (3	Natural gas	3:	54 MMBTU/H, each	per 12-month rolling time period.	pipeline quality natural gas.	- 0	014 LB/MMBTU	AVG TIME		0)	
			combined cycle combustion turbine				Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG)										
			and heat recovery				trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped with dry low NOx										
*MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	steam generator	Natural gas	12	30 MW	combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fired duct burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	Use clean fuel (natural gas) and good combustion practices.		10.7 LB/H	HOURLY; EACH CT/HRSG TRAIN		0			,	
1111-0-132	OLIVEIT TO THE LETT	7/30/2010	EUCTGHRSG (South Plant): A	Trucului gus	12.	30 M H	A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery	companion practices.		10.77 12.071	Cimino nom						
			combined cycle				steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a										
			natural gas-fired combustion turbine				nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755										
			generator with heat				MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The	Good combustion practices, inlet air									
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	recovery steam	Natural gas		00 MW	HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped	conditioning and the use of pipeline quality natural gas.		19.1 LB/H	HOURLY						
*MI-0433	MEC SOUTH LLC	6/29/2018	generator.	Naturai gas	31	00 MW	with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	quality natural gas.		19.1 LB/H	HOURLY		0			,	
							Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV).										
			EUCTGHRSG														
			(North Plant): A combined-cycle				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a										
			natural gas-fired				nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3.080										
			combustion turbine generator with heat				MMBTU/hr (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The	Good combustion practices, inlet air									
l	MEC NORTH, LLC AND		recovery steam		_		HRSG is not carable of operating independently from the CTG. The CTG/HRSG is equipped										
*MI-0433	MEC SOUTH LLC	6/29/2018	generator.	Natural gas	31	00 MW	with dry low NOx burner (DLNB), SCR, and an oxidation catalyst. Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	quality natural gas.		19.1 LB/H	HOURLY		0)	
							recovery steam generator (CTGHRSG).										
			FGCTGHRSG				Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H										
	BELLE RIVER COMBINED		(EUCTGHRSG1 &				and HRSG duct burners are each rated at 800 MMBTU/H.	Good combustion practices, inlet air conditioning, and the use of pipeline			HOURLY; EACH			HOURLY; EAC	H T		
*MI-0435	CYCLE POWER PLANT	7/16/2018	EUCTGHRSG2)	Natural gas		0	The HRSGs are not capable of operating independently from the CTGs.	quality natural gas.		16 LB/H	UNIT	1	2.2 LB/H	BURNER FIRIN	G)	
			Combined Cycle								AV OF THREE						
	MIDDLESEX ENERGY		Combustion Turbine firing Natural Gas								ONE H STACK TESTS EVERY 5						
NJ-0085	CENTER, LLC	7/19/2016	with Duct Burner	natural gas	40	00 h/yr		COMPLIANCE BY STACK TESTING		18.3 LB/H	YR		0)	
	TENASKA PA PARTNERS/WESTMORELA		Large combustion					Good combustion practices with the use									
*PA-0306	ND GEN FAC	2/12/2016	turbine	Natural Gas		0	This process entry is for operations with the duct burner. Limits entered are for each turbine. Emission limits are for each turbine operating with duct burner and do not include	of low ash/sulfer fuels	0.0	039 LB/MMBTU		1	1.8 LB/HR)	
							startup/shutdown emissions. Tons per year limits is a cumulative value for all three CCCT. CEMS for NOx, CO, and O2. Each CCCT and duct burner have 5 operational scenarios:										
1			1		1		1 CCCT with duct burner fired - fueled by NG only 2 CCCT with duct burner fired - fueled by NG blend with ethane										
	CPV FAIRVIEW ENERGY		Combustion turbine and HRSG with duc		1		3 CCCT without duct burner fired - fueled by NG only	I						12-MONTH			
*PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	and HRSG with due burner NG only Combined Cycle	Natural Gas	33:	38 MMBtu/hr	4 CCCT without duct burner fired - fueled by NG blend with ethane 5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)	Low sulfur fuel, good combustion practices	0	005 LB/MMBTU		13	1.5 TONS	ROLLING BASI	s)	
			Combined Cycle Turbine with Heat														
			Recovery Steam		1												
1			Generator, fired Duct Burners, and		1												
	GAINES COUNTY POWER		Steam Turbine	NATURAL	1		Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam	Pipeline quality natural gas; good									
TX-0819	PLANT	4/28/2017	Generator COMBUSTION	GAS	4:	26 MW	Turbine Generators	combustion practices	+	0		1	0		+)	+
			TURBINE GENERATOR		1												
			WITH DUCT-		1												
			FIRED HEAT RECOVERY		1												
	GREENSVILLE POWER		STEAM		1			Low sulfur/carbon fuel and good	1		AVG OF 3 TEST						
*VA-0325	STATION	6/17/2016	GENERATORS (3)	natural gas	32	27 MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	combustion pratices	0.0	039 LB/MMBTU	RUNS AVERAGE OF 3	-	0	12-MONTH	-		-
	MARSHALLTOWN		Combustion turbine	l		50 8.4					ONE-HOUR TEST	г _		ROLLING			
*IA-0107	GENERATING STATION		#2 -combined cycle Electric Generation	natural gas		58 mmBtu/hr	Two combined cycle combustion turbines followed by HRSGs with capability for supplemental			0.01 LB/MMBTU	RUNS HOURLY	7	7.1 T/YR	TOTAL	+		+
*IL-0112	NELSON ENERGY CENTER	12/28/2010		Natural Gas	2:	20 MW each	fuel firing in HRSG for each combustion turbine using duct burners. IEACH TURBINE IS EOUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS		0	012 LB/MMBTU	AVERAGE	1	0		+		1
			FOUR (4)		1		FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR										
			NATURAL GAS COMBINED		1		IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC										
			CYCLE		1		EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	COMBUSTION TURBINES	NATURAL GAS	23/	00 MMBTU/H	EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	GOOD CUMBUSTION PRACTICE AND FUEL SPECIFICATION		18 lb/hr	3 HOURS	0.00	78 LB/MMBTU	3 HOURS			
	SALEM HARBOR STATION	123/2012	Combustion Turbine		2.7						1 HR AVG/DO NOT APPLY	0.00		1 HR AVG/DO NOT APPLY			
			Combustion Turbine	1	1	49 MMBtu/hr	two 315 MW (nominal) GE Energy 7F Series 5 Rapid Response Combined Cycle Combustion Turbines with Duct Burners and 31 MW (estimated) steam turbine generators	1	1	062 LB/MMBTU	NOT APPLY DURING SS	1		NOT APPLY DURING SS	1	1	1

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			2 COMBINED- CYCLE COMBUSTION	NATURAL		5 MEGAWATT	TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 72S MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND)		AVERAGE OF THREE STACK						
*MD-0041	CPV ST. CHARLES	4/23/2014	TURBINES	GAS	72	S MEGAWATT	CATALYST	GOOD COMBUSTION PRACTICE	0.0	011 LB/MMBTU	TEST RUNS		0			0	+
*MD-0042	WILDCAT POINT GENERATION FACILITY	482014	2 COMBINED CYCLE COMBUSTION TURBINES, WITH DUCT FIRING	NATURAL GAS	100	10 MW	TWO MITSUBSHI & Bequox. & Bequox. & Bequox. MODEL COMBUSTION TURBINE GENERATORS (CTS) WITH A NOMINAL GENERATING CAPACITY OF 2:70 MW CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRKG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS, SELECTIVE CATALYTIC REDUCTION (SCR), OXIDATION CATALYTST	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN		39 Ib/be	AVERAGE OF 3 STACK TEST RUNS						
MD-0042	GENERATION FACILITY	4/8/2014		UAS	100	IO NIW	This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator	EFFICIENT TORBINE DESIGN		38 10/11	RUNS		0			U	+
			Combined cycle combustion turbine				(HRSG).										
*MI-0402	SUMPTER POWER PLANT	11/17/2011	w/ HRSG	Natural gas	13	0 MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle.		0.00	066 LB/MMBTU	TEST	-	7.4 lb/hr	TEST		0	+
	MIDLAND COGENERATION		Natural gas fueled combined cycle combustion turbine generators (CTG) with HRSG and duc				This process is pennitted in a flexible group formst, identified in the permit as FG-TG/DBH2 and is for two natural gas fried CTGs with each turbine containing a best recovery and a first proximating a best recovery flexible on several turbine generator. Each CTG is equited with a dy low Nox (DLN) lumera and a selective catalytic reduction (SCR) system. Additionally, the HRSG is operating with a natural gas fried out burner for supplemental frings.				TEST			TEST			
*MI-0405	VENTURE	4/23/2013	burner (DB)	Natural gas	248	6 MMBTU/H	The throughput is 2,486 MMBTU/H for each CTG/DB.	Good combustion practices	0.0	008 LB/MMBTU	PROTOCOL	1	9.9 lb/hr	PROTOCOL		0	
	MIDLAND COGENERATION		Natural gas fueled combined cycle combustion turbine generators (CTG) with HRSG and duc				This process is permitted in a flexible group format, identified in the permit as FG-CTG/DB1-3 and is for two natural gass fined CTGs with each turbine containing a hear recovery steam generator (HRSO) to operate in combined cycle. The two CTGs (with HRSO) are connected to one steam turbine generator. Each CTG is equipped with a dry low NOX (DLN) burner and a selective catalytic reduction (SCR) system. Additionally, the HRSG is operating with a natural gas fired duct burner for supplemental firing.				TEST						
*MI-0405	VENTURE VENTURE	4/23/2013	burner (DB)	Natural gas	248	6 MMBTU/H	The throughput is 2,486 MMBTU/H for each CTG/DB. Natural gas fired CTG with DB for HRSG; 4 total.	Good combustion practices	0.0	004 LB/MMBTU	PROTOCOL		0			0	
							Natural gas treed. Its with DB for HROG; 4 fordat. Technology A (4 total) is 2887 MMBTUH design heat input each CTG. Technology B (4 total) is 2688 MMBTUH design heat input each CTG. Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will sedect one technology. Installation is two separate CTG/HRSG				TEST						
			FGCCA or FGCCB	4			trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be	Combustion air filters; efficient			PROTOCOL (3 1-						
*MI-0410	THETFORD GENERATING STATION	7/25/2013	4 nat. gas fired CTG w/ DB for HRSG	natural gas	258	MMBTU/H heat input, cach CTG	rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up to 1,400 MW.	combustion control; low sulfur natural ga	0.00	066 LB/MMBTU	H TESTS IF POSSIBLE)		0			0	
	JATTEST .	1123/2913	W DD IO III.OO	marcaran gas	200	, cum cro	This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle natural gas- fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSGs)	Auc.i.	0.01	NO LESMINESTO	T OUSSIDEE)						
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	12/4/2013	FG-CTGHRSG: 2 Combined cycle CTGs with HRSGs with duct burners COMBINED	natural gas	64	MMBTU/H for each	nere commission turing generators (1.10x) win freat recovery seam toenceators (fin-Xxis) equipped with due bruners for supplemental firing (EUTCHBRSG) a EUTCHBRSG). FOR FGCTGHBSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month fulling time period. Each CTGHBSG shall not exceed 647 MMBtuhr on a fuel heat input basis.	Good combustion practices and the use oppeline quality natural gas.		014 LB/MMBTU	TEST PROTOCOL		0			D	
	PSEG FOSSIL LLC SEWAREN GENERATING		CYCLE COMBUSTION TURBINE WITH DUCT BURNER -			MMCUBIC FT PER	Natural Gas Usage = 33,691 MMfr ³ 3yr per 365 consecutive day period, rolling one day basis (per frw Stiemens turbines and two associated duct burners) The heat input rate of the Stiemens turbine will be 2,356 MMBru/hr(HHV) with a 62.1 duct burner MMBru/hr(HHV).				AVERAGE OF						
*NJ-0081	STATION	3/7/2014	SIEMENS COMBINED	Natural Gas	3369	1 YEAR		Use of natural gas a clean burning fuel		14 lb/hr	THREE TESTS		0			0	+
	PSEG FOSSIL LLC SEWAREN GENERATING		CYCLE COMBUSTION TURBINE WITH DUCT BURNER - GENERAL				Natural Gas Usage = 33,691 MMfr ³ -3yr per 365 consecutive day period, rolling one day basis (per two turbines and two duct burners) The heat input rate of each General Electric combustion each turbine will be 2,312	Use of natural gas only as a clean burnin	g		AVERAGE OF THREE ONE						
*NJ-0081	STATION	3/7/2014	ELECTRIC	Natural gas	3369	1 MMCUF/year.	MMBtu/hr(HHV) with a 164.4 MMBtu/hr duct burner This is a 427 MW Siemens Combined Cycle Turbine with duct burner	fuel	- 1	4.6 lb/hr	HOUR TESTS		0			0	+
*NJ-0082	WEST DEPTFORD ENERGY STATION	7/18/2014	Combined Cycle Combustion Turbine with Duct Burner	Natural Gas	2028	2 MMCF/YR	Heat Input rate of the turbine = 2276 MMstuln (HHV) Heat Input rate of the Duct burner= 777 MMsbuln(HHV) The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners. Two Sierners 2932 MMBuH combined cycle combustion turbines, both with 300 MMBtu/H	Use of Natural gas a clean burning fuel	21	.55 lb/hr	AVERAGE OF THREE STACK TEST RUNS	0.00	069 LB/MMBTU	AVERAGE OF THREE STACK TEST RUNS		0	
	OREGON CLEAN ENERGY		2 Combined Cycle Combustion Turbines-Siemens,				duet burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mistubishi, not both (not determined). Short term limits are different with and without duet burners.							PER ROLLING	12-		
*OH-0352	CENTER	6/18/2013	with duct burners	Natural Gas	5156	0 MMSCF/rolling 12-MO	This process with duct burners. Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300	clean burning fuel, only natural gas		14 lb/hr		6	1.3 T/YR	MONTHS		0	+
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	2 Combined Cycle Combustion Turbines-Mitsubishi with duct burners	i, Natural Gas			MMBtuH duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners. This process with duct burners. This process with duct burners. Four GE TFA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	clean burning fuel, only natural gas	1	0.1 lb/hr		4	4.2 T/YR	PER ROLLING MONTHS	12-	0	
*OH-0356	DUKE ENERGY HANGING ROCK ENERGY	12/18/2012	Turbines (4) (model GE 7FA) Duct Burners On	NATURAL GAS		12 MW	Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct burners.	Burning natural gas in an efficient combustion turbine	1	9.9 lb/hr		8	7.2 T/YR	PER ROLLING MONTHS	12	0	
	TROUTDALE ENERGY		Mitsubishi M501- GAC combustion turbine, combined								C UD AVED :			6-HR AVERAG			
*OR-0050	CENTER, LLC	3/5/2014	cycle configuration with duct burner.	natural gs	298	8 MMBtu/hr	or ULSD; Duct burner 499 MMBtu/hr, natural gas	Utilize only natural gas or ULSD fuel; Limit the time in startup or shutdown.	2	3.6 lb/hr	6-HR AVERAGE ON NG	4	2.3 lb/hr	ON ULSD		0	
	MOXIE ENERGY LLC/PATRIOT		Combined Cycle Power Blocks 472				Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a										
*PA-0286	GENERATION PLT	1/31/2013	MW - (2)	Natural Gas		0	combustion turbine and heat recovery steam generator with duct burner.		0.00	057 LB/MMBTU		-	54 T/YR	EACH UNIT		0	
*PA-0288	SUNBURY GENERATION LP/SUNBURY SES	4/1/2013	Combined Cycle Combustion Turbine AND DUCT BURNER (3)	Natural Gas	253800	0 MMBTU/H	Three powerblocks consisting of three (3) natural gas fired F class combustion turbines coupled with three (3) heat recovery steam generators (HSRGs) equipped with natural gas fired duct burners.		0.00	088 LB/MMBTU	12-MONTH		0			D	
*D 4 0206	BERKS HOLLOW ENERGY	12/17/2012	Turbine, Combined	Notes of Co.	20.0	LANDE-A-	Emirad with SCB and Onitation Coulom		40	EC TAVE	ROLLING TOTAL		66 11.0				
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Cycle, #1 and #2 Turbine,	Natural Gas	304	6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst		48	.56 T/YR	IOIAL	21	.55 lb/hr	BASED ON A 1	2-	V .	
*PA-0298	FUTURE POWER PA/GOOD SPRINGS NGCC FACILITY	3/4/2014	COMBINED CYCLE UNIT (Siemens 5000)	Natural Gas	226	7 MMBtu/hr			1	5.6 lb/hr	WITH DUCT BURNER	5	8.7 T/YR	MONTH ROLLING TOTAL		0	

	1	PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	[STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	COLOR ADO BEND ENERGY		Combined-cycle gas turbine electric	s			combined cycle power plant that uses two combustion turbines and one steam turbine, model										
*TX-0730	CENTER	4/1/2015	generating facility	natural gas	110	0 MW	GE 7HA.02	efficient combustion, natural gas fuel		43 lb/hr			0)	
			Combined Cycle Turbines (>25				Two power configuration options authorized										
	EAGLE MOUNTAIN STEAM		MW) – natural				Siemens â& 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner										
*TX-0751	ELECTRIC STATION	6/18/2015	5 gas	natural gas	21	0 MW	GE – 210 MW + 349.2 MMBtu/hr duct burner		35	.47 lb/hr		81	.88 T/YR)	
			Combined Cycle				Two power configuration options authorized										
*TX-0767	LON C. HILL POWER STATION	10/2/2015	Turbines (>25		10	5 MW	Siemens – 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner GE – 195 MW + 670 MMBtu/hr duct burner	Good combustion practices and use of pipeline quality natural gas		16 11-4		1.0	9.5 T/YR		1 .	,	
	CHEYENNE PRAIRIE		Combined Cycle	natural gas			GE at: 193 MW ± 670 MINIBURE duct burner			10 lour	3-HOUR			CALENDAR		,	
*WY-0070	GENERATING STATION INTERNATIONAL STATION	8/28/2012	GE I M6000PF-25	Natural Gas	4	0 MW		good combustion practices		4 lb/hr	AVERAGE 3-HOUR	1	7.5 T/YR	YEAR	-)	
AK-0071	POWER PLANT	12/20/2010	Turbines (4)	Natural Gas	5990	0 hp ISO	Turbine-duct burner pairs exhaust through common stack	Good Combustion Practices	0.0	066 LB/MMBTU	AVERAGE		0)	
								Combustion Turbines EU IDs 5-8 use									
								good combustion practices involve									
								increasing the residence time and excess	3								
	INTERNATIONAL STATION						EU IDs 5-8 Combined Cycle Natural Gas-fired Combustion Turbines rated at 59,900 hp (44.7	oxygen to ensure complete combustion which in turn minimize particulates									
AK-0073	POWER PLANT	12/20/2010	Fuel Combustion	Natural Gas	5990	0 HP	MW)	without an add-on control technology.	0.0	066 LB/MMBTU	3-HOUR		0)	
								USE PUBLIC UTILITY COMMISSION	N .								
								QUALITY NATURAL GAS W/									
CA-1144	BLYTHE ENERGY PROJECT	4/25/2007	2 COMBUSTION	NATURAL	17	0 MW	EACH TURBINE WILL PRODUCE 170 MW	SULFUR CONTENT LESS THAN OR EQUAL TO 0.5 GRAINS PER 100 SCE		6 lb/hr			61 T/YR		1 .		
C31-11-1-1		1/23/2001	COMBUSTION	TOTAL STATE OF THE		0 14.11	INCIT FORDILL WILL INODOCE ITO MA	EQUILE TO 0.5 GREAT TER 100 SCI		O IOIL			0111111				
			TURBINE #2 (NORMAL								12-MONTH						
			OPERATION,								ROLLING AVG						
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	WITH DUCT	NATURAL	15	4 MW	154 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS		19 Ib-lie	(W/ DUCT BURNING)				1 .	,	
CA-1191	TOWERTROJECT	3/11/2010	BURNING) COMBUSTION	UAS		4 N.W	154 M W Contolled Cycle Colliduxion Futblic Generator	TOC QUALITY NATORAL GAS		10 10 11	BUKINING)		-			1	
			TURBINE #1 (NORMAL														
			OPERATION,														
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	WITH DUCT BURNING)	NATURAL	10	0 MW		LISE BUG ON A LEV NATURAL CAS		78 lb/hr	12-MONTH ROLLING AVG				1 .	,	
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	BURNING)	GAS	18	UMW		USE PUC QUALITY NATURAL GAS		./8 lb/hr	ROLLING AVG		0		-	,	
			COMBUSTION					USE PIPELINE QUALITY NATURAL GAS, OPERATE DUCT BURNERS NO			6-HR ROLLING			6-HR ROLLING			
	MORRO BAY POWER		TURBINE	NATURAL				MORE THAN 4000 HRS PER YEAR	9		AVG (NO DUCT			AVG (W/ DUCT			
CA-1198	PLANT	9/25/2008	GENERATOR COMBUSTION	GAS	18	0 MW		(12-MONTH ROLLING AVG BASIS)		11 lb/hr	BURNING)	1	3.3 lb/hr	BURNING))	
			TURBINES														
CA-1211	COLUSA GENERATING	3/11/2011	(NORMAL	NATURAL		2 MW	TWO (2) NATURAL GAS FIRED TURBINES AT 172 MW EACH. BOTH TURBINES			3.5 lb/hr							
CA-1211	STATION	3/11/2011	OPERATION)	GAS	17	2 MW	EQUIPPED WITH A 688 MMBTU/HR DUCT BURNER AND HRSG. TWO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATED.	USE NATURAL GAS	· '	3.5 lb/fir	STACK TEST	+	0	_	-	,	
			COMBUSTION				AT 154 MEGAWATT (MW, GROSS) EACH, TWO HEAT RECOVERY STEAM										
	PALMDALE HYBRID		TURBINES (NORMAL	NATURAL			GENERATORS (HRSG), ONE STEAM TURBINE GENERATOR (STG) RATED AT 267 MW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH				9-HR AVG (NO			9-HR AVG (W/			
CA-1212	POWER PROJECT	10/18/2011	OPERATION)	GAS	15	4 MW	ASSOCIATED HEAT-TRANSFER EQUIPMENT	USE PUC QUALITY NATURAL GAS	0.0	048 LB/MMBTU	DUCT BURNING	i) 0.0	49 LB/MMBTU	DUCT BURNIN	3))	
			SIEMENS SGT6-														
			5000F														
			COMBUSTION TURBINE #1 AND	,			THROUGHPUT IS FOR TURBINE ONLY WHEN FIRING NATURAL GAS										
			#2 (NATURAL				TURBINE: 2136 MMBTU/HR (2.095 MMCF/HR)										
			GAS FIRED) WITH	1			DUCT BURNER: 445 MMBTU/HR (0.436 MMCF/HR)										
	KLEEN ENERGY SYSTEMS,		NATURAL GAS	NATURAL			EMISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS,				W/OUT DUCT			W/ DUCT			
CT-0151	LLC	2/25/2008	DUCT BURNER COMBUSTION	GAS	2.	1 MMCF/H	NOT COMBINED.			11 lb/hr	BURNER	1	5.2 lb/hr	BURNER	-)	
			TURBINE,														
	LANGLEY GULCH POWER		COMBINED CYCLE W/ DUCT	NATURAL			SIEMENS SGT6-5000F COMBUSTION TURBINE (NGCT, CCGT) FOR ELECTRICAL	GOOD COMBUSTION PRACTICES									
ID-0018	PLANT	6/25/2010	BURNER	GAS (ONLY)	2375.2	8 MMBTU/H	GENERATION, NOMINAL 269 MW AND 2.1466 MMSCF/HR	(GCP)		0	SEE NOTE		0)	
	PLAOUEMINE		(4) GAS TURBINES/DUCT	NATURAL			VISUAL INSPECTION FOR OPACITY ON A WEEKLY BASIS, STACK TESTS FOR PM, NOX, SO2, OPACITY, CO				HOURLY			ANNUAL			
LA-0136	COGENERATION FACILITY	7/23/2008	BURNERS	GAS	287	6 MMBTU/H	EMISSION POINTS GT-500, -600, -700, -800.	USE OF CLEAN BURNING FUELS USE OF CLEAN BURNING FUEL	3	3.5 lb/hr	MAXIMUM		139 T/YR	MAXIMUM)	
			GAS TURBINES -					USE OF CLEAN BURNING FUEL AND GOOD COMBUSTION			HOURLY			ANNUAL			NOT
LA-0192	CRESCENT CITY POWER	6/6/2005	5 187 MW (2)		200	6 MMBTU/H		PRACTICES		9.4 lb/hr	MAXIMUM	12	8.8 T/YR	MAXIMUM)	AVAILABLE
								WHILE FIRING NATURAL GAS: USE OF PIPELINE QUALITY NATURAL	i i								
					1			GAS AND GOOD COMBUSTION									1
			COMBINED		1			PRACTICES									1
			CYCLE TURBINE				TURBINES ALSO PERMITTED TO BURN NO. 2 FUEL OIL AND ULTRA LOW SULFUR										1
	NINEMILE POINT ELECTRIC GENERATING		GENERATORS	NATURAL	1		DIESEL.	ULTRA LOW SULFUR FUEL OIL AND GOOD COMBUSTION			HOURLY AVERAGE W/O			HOURLY AVERAGE W/			1
LA-0254	PLANT	8/16/2011	(UNITS 6A & amp; 6B)	GAS	714	6 MMBTU/H	FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR	AND GOOD COMBUSTION PRACTICES	2/	.23 lb/hr	AVERAGE W/O DUCT BURNER	33	.16 lb/hr	AVERAGE W/ DUCT BURNER	.1		1
	i i		COGENERATION	Ī	/		FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR. EACH COGEN TRAIN CONSISTS OF A 50 MW GE LM6000 PF SPRINT TURBINE AND	USE OF NATURAL GAS AS FUEL									
LA-0256	COGENERATION PLANT	12/6/2011	TRAINS 1-3 (1-10, 2-10, 3-10)	NATURAL GAS	47	5 MMBTU/H	A HEAT RECOVERY STEAM GENERATOR EQUIPPED WITH A 70 MM BTU/HR DUCT BURNER.	AND GOOD COMBUSTION PRACTICES		.72 lb/hr	HOURLY MAXIMUM		0		1 .		1
		1202011	Combined Cycle	1													
	SABINE PASS LNG		Refrigeration Compressor		1			Good combustion practices and fueled by	v		HOURLY						1
LA-0257	TERMINAL	12/6/2011	Turbines (8)	natural gas	28	6 MMBTU/H	GE LM2500+G4	natural gas		.08 lb/hr	MAXIMUM		0		1)	
							EACH TURBINE IS EQUIPPED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG). EACH HRSG IS FOUIPPED WITH A NATURAL GAS FIRED DUCT BURNER.	STATE OF THE ART COMBUSTION									
			3 COMBUSTION		1		(650 MMBTU/H). TOTAL NOMINAL PLAN GENERATING CAPACITY WITHOUT	TECHNIQUES AND USE									1
MI-0366	BERRIEN ENERGY, LLC		TURBINES AND DUCT BURNERS	NATURAL		4 MMBTU/H	DUCT FIRING IS 800 MW. A MAX OUTPUT OF 1100 MW THROUGH SUPPLEMENTAL FIRING OF HRSGS.	OF NATURAL GAS ARE BACT FOR PM10.		10 15 4			3.3 T/YR			,	1
MI-0366	DERKIEN ENERGY, LLC	4/13/2005		UAS	158	*LWMB1U/H	SUPPLEMENTAL FIRING OF HRSGS.	FM10.		13 lp/hr	+	29	3.3 1/YK		1	1	1
			COMBINED		1												CTG OIL & DB
			CYCLE COMBUSTION		1		COMBUSTION TURBINE PERMITTED TO USE NG & NO. 2 OIL; DUCT BURNER										NOT OPERATE
	L		TURBINE	NATURAL			PERMITTED TO USE NG & NO. 2 OIL. DUCT BURNER ALSO AUTHORIZED TO				CTG NG OR CTG			CTG NG & DB			OR DB NG OR
MN-0071	FAIRBAULT ENERGY PARK	.1 6/5/2007	W/DUCT BURNER	RJGAS	175	8 MMBTU/H	COMBUST LIQUID BIOFUEL.	1	(.01 LB/MMBTU	& DB NG	0.0	15 LB/MMBTU	JOIL	0.0	LB/MMBTU	JOIL

		IPERMIT ISSUANCE		IDDIMADV				ICONTROL METHOD	IEMISSION		IAVG TIME	IEMISSION		IAVG TIME	ISTANDARAD		IAVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			TURBINE & amp;														
			DUCT BURNER, COMBINED				Each of these units have a natural gas-fired HRSG & a	CLEAN BURNING LOW-SULFUR									
			CYCLE, NAT GAS	NATURAL			natural gas fired duct burner. Limits for this process	FUELS AND GOOD									
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	TURBINE,	GAS	1844	3 MMBTU/H	are for turbines and duct burners.	COMBUSTION PRACTICES CLEAN FUELS - NATURAL GAS	0	021 LB/MMBTU	3-hr avg		0		(
			COMBINED	NATURAL				AND ULTRA LOW SULFUR (15PPM									
NJ-0074	WEST DEPTFORD ENERGY CAITHNES BELLPORT	5/6/2009	CYCLE	GAS NATURAL	172	8 MMFT3/YR		SULFUR) DISTILLATE OIL	1	3.66 lb/hr			0		(
NY-0095	ENERGY CENTER	5/10/2006	COMBUSTION TURBINE	GAS	22	MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	LOW SULFUR FUEL	0.0	055 LB/MMBTU	NO DUCT BURNING	0.00	66 LB/MMBTU	W/DUCT BURNING			
		5/10/2000	COMBUSTION	U.L.		- I MANDO I M	COMBINED CICLE WITH BOCT INCIVOR TO 454 MINISTON	EOW BOLF CRITCEL	0.0	USS EDMINIDIO	DOMINIO	0.00	SO EDMANDIC	DORMETO	<u> </u>		
OK-0115	LAWTON ENERGY COGEN FACILITY	12/12/2004	TURBINE AND DUCT BURNER					GOOD COMBUSTION PRACTICES	0.0	067 LB/MMBTU							
OK-0113		12/12/2006							0.0	00/ LB/MMB1U			0				
	PSO SOUTHWESTERN		GAS-FIRED					USE OF LOW ASH FUEL (NATURAL									
OK-0117	POWER PLT	2/9/2007	TURBINES					GAS) AND EFFICIENT COMBUSTION	N 0.0	093 LB/MMBTU			0		(
			CYCLE														
			COGENERATION	NATURAL													
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	>25MW COMBINED	GAS	18	2 MMBTU/H	SIEMENS V84.3A	NATURAL GAS FUEL		5.59 lb/hr	3-H AVG	0.00	35 LB/MMBTU	24-H AVG	- (1	
			CYCLE NATURAL	-													
			GAS-FIRED ELECTRIC														
			GENERATING	NATURAL													
OR-0048	CARTY PLANT	12/29/2010	UNIT	GAS	286	6 MMBTU/H		CLEAN FUEL		2.5 LB/MMCF		0.00	83 LB/MMBTU		(
							Two combine cycle Turbines each with a combustion turbine and heat recovery steam										
			Combined-cycle				generator with duct burner. Each combined-cycle process will be rated at 468 MW or less.									1	
	MOXIE LIBERTY		Turbines (2) -				The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the		:		FOR 468 MW			FOR 454 MW	1	1	
PA-0278	LLC/ASYLUM POWER PL T	10/10/2012	Natural gas fired	Natural Gas	32	7 MMBTU/H		content.	0	004 LB/MMBTU	POWERBLOCK	0.00	57 LB/MMBTU	POWERBLOCK	-	-	
							GREEN POWER ONE WILL CONSIST OF TWO NOMINALLY RATED 35 MW GAS									1	
							FIRED TURBINES AND TWO HEAT RECOVERY STEAM GENERATORS, EQUIPPED WITH 312 MMBTU/HR DLICT BURNERS. THE COMBUSTION TURBINES WILL.					1			1	1	
							ONLY BURN PIPELINE OUALITY SWEET NATURAL GAS. THE DUCT BURNERS										
							WILL BURN NATURAL GAS, COMPLEX GAS OR MIXTURES OF NATURAL GAS										
							AND COMPLEX GAS. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE										
			COGENERATION				CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROXIMATELY HALF OF THE ELECTRICAL OUTPUT	THE USE OF PROPER COMBUSTION CONTROL AND FIRING ONLY	1								
			TRAIN 2 AND 3				PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE	GASEOUS FUELS CONTAINING NO									
			(TURBINE AND				COMBUSTION TURBINES WILL BE SOLD TO THE GRID.	ASH IS BACT FOR PARTICULATE									
	INEOS CHOCOLATE		DUCT BURNER	NATURAL				MATTER FROM THE GAS FIRED									
TX-0497	BAYOU FACILITY	8/29/2006	EMISSIONS) WESTINGHOUSE/	GAS		5 MW	THE EMISSIONS ARE PER TRAIN.	TURBINES AND DUCT BURNERS.	1	0.03 lb/hr		71.	32 T/YR		(
			SIEMENS MODEL					STEAG POWER LLC REPRESENTS									
			SW501F GAS					THE FIRING OF PIPELINE NATURAL									
	NACOGDOCHES POWER STERNE GENERATING		TURBINE W/ 416.5 MMBTU DUCT	NATURAL				GAS IN THE COMBUSTION	_								
TX-0502	FACILITY	6/5/2006	BURNERS	GAS	10	0 MW		TURBINES AND DUCT FIRED HRSG AS BACT FOR PM10.		26.9 lb/hr		274	.4 T/YR				
171 0502	TACALAT I	0/3/2000	DORITERO	U. L.			The plant will be designed to generate 1,350 nominal megawatts of power. There are two	no biter rotermio.							—		
							configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode										
TX-0590	KING POWER STATION	8/5/2010	Turkina	natural gas	121	0 MW	(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B also includes one or two auxiliary boilers.	use of low ash fuel (natural gas or low sulfur diesel as a backup)		11.1 lb/hr		16	8 llb/hr		(
	CHANNEL ENERGY	0.5/2510	Combined Cycle	natara gas			The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a	good combustion and the use of gaseous		1.1 10.11		-	.0 10111		 		
TX-0618	CENTER LLC	10/15/2012	Turbine	natural gas	11	0 MW	maximum design heat input of 475 MMBtu/hr.	fuel		27 lb/hr			0		(
							natural gas-fired combined cycle turbine generator with a heat recovery steam generator equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts										
	DEER PARK ENERGY		Combined Cycle				and the DB will have a maximum design rate capability of 725 million British thermal units	good combustion and the use of natural									
TX-0619	CENTER	9/26/2012	Turbine COMBINED	natural gas	13	0 MW	per hour	gas		27 lb/hr			0	3 HR AVG	(
			CYCLE TURBINE								3 HR AVG.			WITH DUCT			
	WARREN COUNTY POWER		& DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Natural Gas only, fuel has maximum			DUCT BURNER	.		BURNER			
VA-0315	PLANT - DOMINION	12/17/2010	BURNER, 3	Natural Gas	299	6 MMBTU/H	generator, Model M501 GAC).	sulfur content of 0.0003% by weight.		8 lb/hr	FIRING)		14 lb/hr	FIRING)	(
	GATEWAY COGENERATION 1, LLC -		COMBUSTION				P	Class bossis - foots and another transfer									
/A-0319	SMART WATER PROJECT	8/27/2012	TURBINES, (2)	Natural Gas	51	3 MMBTU/H	Burns primarily natural gas but has the capacity to burn up to 500 hours of ultra low sulfur diesel fuel (ULSD) as backup.	Clean-burning fuels and good combustion practices.	"	5 lb/hr	3 H AVG		0				
			COMBUSTION				, , ,							3 H			
VA-0321	BRUNSWICK COUNTY POWER STATION	3/12/2013	TURBINE	N		2 MMBTU/H	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duet burners	Low sulfur/carbon fuel and good		047 LB/MMBTU	3 H AVG/WITH DUCT BURNING		210.0-	AVG/WITHOUT DUCT BURNING	,	3 H AVG/WITH DUCT BURNING	
vA-0321	I OWER STATION	3/12/2013	GENERATORS, (3) GE 7FA	Natural Gas	344	LIMIND I U/II	(natural gas-fired).	combustion practices.	0.0	UT/ LD/MMBIU	DUCT BURNING	· '	. / Itviir	DUCT BURNING	16.3	DUCT BURNING	
			COMBUSTION	1												1	
			TURBINE & amp; HEAT RECOVERY	,			THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL							1	1	1	
	BP CHERRY POINT		STEAM	NATURAL			AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER	LIMIT FUEL TYPE TO NATURAL						1	1	1	
VA-0328	COGENERATION PROJECT	1/11/2005	GENERATOR	GAS	1	4 MW	WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR.	GAS		17 lb/hr			0		(*SEE NOTES
	Astoria Energy LLC		Combustion Turbine	Natural Gas	100	0 MW		Clean Fuel	0.0	098 lb/MMBtu	1-hr average; Due Burners On	it	1 S Bolor	1-hr average; Due Burners On	t	1	
								Pipeline quality low sulfur NG; DLN					10 Id/III	Dumers On	1		
	Catoctin Power LLC		Combustion Turbine	Natural Gas	11	0 MW		combustion design		21.1 lb/hr	3-hr average				1		
	Di V-II E C		Combonian To 1	Notes Co.	20	2 MMBtu/hr				004 11-24240			8 lb/hr				
	Pioneer Valley Energy Center Russell City Energy Company,		Combustion Turbine	Natural Gas				1		004 lb/MMBtu	-		.0 10 11	+	+	 	
	LLC		Combustion Turbine	Natural Gas	2038	6 MMBtu/hr				7.5 lb/hr		0.00	36 lb/MMBtu				
	Toursky Boston I I C		Combustion To 1	Notes Co.	21	7 MMBtu/hr				11.8 lb/hr		0.00	39 lb/MMRm				
	Tenaska Partners LLC UGI Development Co/ Hunlock		Combustion Turbine	natural Gas	314	/ www.btwhr		1	+	11.6 lb/hr		0.00	D9 ID/MMBIU	_	1		
	Creek			Natural Gas	471	2 MMBtu/hr			0.0	141 lb/MMBtu							
	Hawkeye Generating, LLC			Natural Gas	6	5 MW			0.0	111 lb/MMBtu 011 lb/MMBtu		211.	86 T/YR	_			
	Hawkeye Generating, LLC Huntington Beach Energy			Natural Gas	6	5 MW			0	011 lb/MMBtu		211.	86 T/YR	+	+	-	
	Project		<u> </u>	Natural Gas	9:	9 MW (net)				4.5 lb/hr						<u></u>	
	Huntington Beach Energy																
	Project		1	Natural Gas	9:	9 MW (net)			+	9.5 lb/hr	-	+	+	+	+	-	
	Hess Newark Energy Center		Combustion Turbine	Natural Gas	233	0 MMBtu/hr				11 lb/hr						1	
	Hess Newark Energy Center		Combustion Turbine	Natural Gas	220	6 MMBtu/hr				13.2 lb/hr	-l	1			1		
	York Energy Center Block 1		1	1	15'	4 MMBtu/hr 4 MMBtu/hr			0.0	141 lb/MMBtu 141 lb/MMBtu	hourly basis		+	+	1		
					19:	- International	1		0.0	A TALLED IN INVINIDUE		+					-
	Liberty Electric Power, LLC Footprint Power Salem Harbor		Combustion Turbine		1	6 MW		Clean Fuel			1-hr average; Duc	rt	62 lb/MMBtu	1-hr average; Due	t		

		IPERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD	IA.	VG TIME
RBLCID			PROCESS NAME		THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES			UNIT		LIMIT 2	UNIT	CONDITION	EMISSION LIMIT		CONDITION
	Footprint Power Salem Harbor										1-hr average; Duct					=	=
	Development LP		Combustion Turbine	Notural God	2.44	s MW		Clean Fuel	0.04	LB/MW-hr	Burners On					1	
	Development Li		Compasion raionic	Natural Gas	340	J INLW		Cicali Fuci	0.04	LD/MW-III	Duners On						$\overline{}$
	Kalama Energy Center		Combustion Turbine	Natural Gas	224	7 MMBtu/hr			17.	lb/hr	3-hr average	0.0068	lb/MMBtu	3-hr average			
	Kalama Energy Center		Combustion Turbine	Natural Gas	224	7 MMBtu/hr			70	T/YR	12-mo rolling						
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	9 MMBtu/hr				5 lb/hr							
	1										30-day rolling					1	
	PacifiCorp Energy		Block 1 CT	Natural Gas					10.8	3 lb/hr	average						
	PacifiCorp Energy		Block 2 CT	Natural Gas		MW				4 Ib/hr	30-day rolling average					1	
	Sevier Power Company Power		Block 2 C1	Naturai Gas	023	9 IVI W		+	1.	+ Itt/III	30-day rolling				_		
	Plant		Combustion Turbine	Notural God	59/	MW			10	1 lb/br	average					1	
	1 faint		COMBINED	Natural Gas	300	/ IVI VV			, ·	V I I CO I II	average						$\overline{}$
	1		CYCLE TURBINE								(WITH DUCT					1	
	WARREN COUNTY POWER		& DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Oxidation catalyst and good combustion			BURNER					1	
	PLANT - DOMINION		BURNER, 3	Natural Gas	2996	6 MMBTU/H	generator, Model M501 GAC).	practices.	21.3	2 lb/hr	FIRING)	0.006	lb/MMBtu				
	Woodbridge Energy Center																
	(CPV Shore, LLC)			Natural Gas	280	7 MMBtu/hr			19.	l lb/hr							
	Woodbridge Energy Center															1	
	(CPV Shore, LLC)			Natural Gas	230	7 MMBtu/hr			12.	l lb/hr							
	Hummel Station LLC		Combustion Turbine	Notes Co.	226	4 MMBtu/hr			12.	B Ib/hr						1	
	Gibson County Generation,		Combustion Turbine	Naturai Gas	2231	+ MMDWIII		+	17.	S HO/HF				_			$\overline{}$
	LLC		Combustion Turbine	Natural Gas	41*	7 MW					1	0.0089	lb/MMBtu	24-hr average			
	LLC		Companion I dionic	Transaction Class	71.						average of 3 test	0.008	, in minibile	2 in average			$\overline{}$
	York Energy Center Block 2	6/15/2015			2512.5	MMBtu/hr	firing NG with duct burner		18.4	1 lb/hr	runs		1				
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW			191.9	T/YR							
	Shell Chemical									1	combustion turbines with duct		1				
	Appalachia/Petrochemicals Complex	6/18/2015				4 MMBtu/hr	each of the combustion turbines with duct burners		0.006	ib/MMBtu			1				
	Complex	6/18/2015			664	+ INIMBIU/III	each of the combustion turbines with duct burners		0.0060	in/www.ti	burners						

	1	IPERMIT ISSUANCE	1	IPRIMARY			Invenergy, LLC - Allegneny County Energ	CONTROL METHOD	TEMISSION		TAVC TIME	IFMISSION		IAVC TIME	ISTANDARAD		TAVC TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
CT-0161	KILLINGLY ENERGY CENTER	6/30/2017	Natural Gas w/o Duct Firing	Natural Gas	296	MMBtu/hr	Throughput is for turbine only	Good Combustion	0.044	LB/MMBTU			0			0	
			Combined-cycle				3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total										
	OKEECHOBEE CLEAN		electric generating				unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas.			GR. S/100 SCF	FOR NATURAL						
FL-0356	ENERGY CENTER	3/9/2016	5 unit	Natural gas	309	MMBtu/hr per turbine	Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Use of clean fuels	2	GAS	GAS	0.001	5 % S IN ULSD	FOR ULSD		0	
	DANIA BEACH ENERGY		2-on-1 combined														
*FL-0363	CENTER	12/4/2017	Cycle unit (GE 7HA)	Natural gas	400	MMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Clean fuels Good combustion practices and the use of	6				0			0	+
			cycle CTG with				A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The	pipeline quality natural gas, combustion	1								
MI-0427	FILER CITY STATION	11/17/2017	unfired HRSG)	Natural gas	1934.	MMBTU/H	turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG). Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	inlet air filter.	0.0066	LB/MMBTU			D			0	+
							recovery steam generator (CTGHRSG).										
			FGCTGHRSG				Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H										
			(EUCTGHRSG1				and HRSG duct burners are each rated at 800 MMBTU/H.	Good combustion practices, inlet air						HOURLY; EACH			
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	& 8 EUCTGHRSG2)	Natural gas		,	The HRSGs are not capable of operating independently from the CTGs.	conditioning, and the use of pipeline quality natural gas.	16	LB/H	HOURLY; EACH UNIT	12.3	2 LB/H	UNIT W/O DUCT BURNER FIRING		0	
			Combined Cycle								AV OF THREE						
	MIDDLESEX ENERGY		Combustion Turbine firing Natural Gas					USE OF NATURAL GAS A CLEAN			ONE H STACK TESTS EVERY 5						
NJ-0085	CENTER, LLC	7/19/2016	S without Duct Burner	Natural Gas	804	H/YR		BURNING FUEL	11.7	LB/H	YR		D			0	
			Combustion turbine														
	CPV FAIRVIEW ENERGY		and HRSG without				Emission limits are for each turbine fueled by NG and operating without duct burner being	Low sulfur fuels and good combustion	1								
*PA-0310	CENTER	9/2/2016	duct burner NG only	Natural gas	+ '		fired and do not include startup/shutdown emissions.	practices	0.0068	LB/MMBTU			0	+		0	+
			Combined Cycle				2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	GOOD COMBUSTION PRACTICES,	1								
TX-0788	NECHES STATION	3/24/2016	& & & Cogeneration	natural gas	23	MW	(GE) Simple cycle operations limited to 2,500 hr/yr.	LOW SULFUR FUEL	19.35	LB/H			0	+	-	0	+
	DECORDOVA STEAM		Combined Cycle				2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	GOOD COMBUSTION PRACTICES	1				1				1
TX-0789	ELECTRIC STATION	3/8/2016	& & & Cogeneration Refrigeration	natural gas	23	MW	(GE). Simple cycle operations limited to 2,500 hr/yr.	AND LOW SULFUR FUEL	35.47	LB/H		-	0		-	0	+
	PORT ARTHUR LNG		Compression						1								
TX-0790	EXPORT TERMINAL	2/17/2016	Simple Cycle	natural gas	- 10	M TONNES/YR	Four GE Frame 7E gas turbines for refrigeration and compression at the site	Equipment specifications & work	11.07	LB/H		42.15	5 T/YR			0	+
			Electrical					practices -									
TX-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Generation Gas Turbines 15.210	natural gas	3-	MW	Nine GE PGT25+G4 gas turbines for electrical generation at the site at 34 MW/turbine	Good combustion practices and use of low carbon, low sulfur fuel	2.32	LB/H		8.84	4 T/YR			0	
	CHOCOLATE BAYOU STEAM GENERATING		Combined Cycle	NATURAL													
TX-0817	(CBSG) STATION	2/17/2017	Combined Cycle Cogeneration	GAS	51	MW	2 UNITS EACH 50 MW GE LM6000		6.98	LB/H			D			0	
*TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	Combined Cycle	NATURAL		MMBTU/HR/UNIT	Two Mitsubishi M501GAC turbines (without fast start)	PIPELINE NATURAL GAS, GOOD COMBUSTION		TON/YR						0	
1 A-0834	POWER STATION	3/30/2018	Turbine COMBUSTION	UAS	203.	MMBTU/HRUNII	Two witsubism M301GAC turbines (without last start)	COMBUSTION	123.7	ION/IR		,				0	
			TURBINE GENERATOR														
			WITH DUCT-														
			FIRED HEAT RECOVERY														
	GREENSVILLE POWER		STEAM					Low sulfur/carbon fuel and good			AVG OF 3 TEST						
*VA-0325	STATION INTERNATIONAL STATION	6/17/2016	GENERATORS (3) GE LM6000PF-25	natural gas		MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	combustion pratices		LB/MMBTU	RUNS 3-HOUR		0	+		0	+
AK-0071	POWER PLANT	12/20/2010	Turbines (4)	Natural Gas	5990	hp ISO	Turbine-duct burner pairs exhaust through common stack	Good Combustion Practices	0.0066	LB/MMBTU	AVERAGE		D			0	
								Combustion Turbines EU IDs 5-8 use									
								good combustion practices involve increasing the residence time and excess									
								oxygen to ensure complete combustion									
AK-0073	INTERNATIONAL STATION POWER PLANT		Fuel Combustion	Natural Gas	5990	HP	EU IDs 5-8 Combined Cycle Natural Gas-fired Combustion Turbines rated at 59,900 hp (44.7 MW)	which in turn minimize particulates without an add-on control technology.	0.0066	LB/MMBTU	3-HOUR		0			0	
					-		,										
								USE PUBLIC UTILITY COMMISSION QUALITY NATURAL GAS W/	1								
	BLYTHE ENERGY PROJECT	r .	2 COMBUSTION	NATURAL		l		SULFUR CONTENT LESS THAN OR	1				.L				
CA-1144	111	4/25/2007	TURBINES COMBUSTION	GAS	170	MW	EACH TURBINE WILL PRODUCE 170 MW	EQUAL TO 0.5 GRAINS PER 100 SCF	6	lb/hr		6	1 T/YR	+		0	+
			TURBINE #1 (NORMAL						1								
			OPERATION, NO	NATURAL					1		12-MONTH						
CA-1192	AVENAL ENERGY PROJECT	T 6/21/2011	DUCT BURNING)	GAS	180	MW		USE PUC QUALITY NATURAL GAS	8.91	lb/hr	ROLLING AVG	-	0	+		0	+
								USE PIPELINE QUALITY NATURAL	1				1				1
	MORRO BAY POWER		COMBUSTION TURBINE	NATURAL				GAS, OPERATE DUCT BURNERS NO MORE THAN 4000 HRS PER YEAR	1		6-HR ROLLING AVG (NO DUCT			6-HR ROLLING AVG (W/ DUCT			
CA-1198	PLANT	9/25/2008	GENERATOR	GAS	180	MW		(12-MONTH ROLLING AVG BASIS)	11	lb/hr	BURNING)	13.3	3 lb/hr	BURNING)		0	
			COMBUSTION TURBINES						1								
CA-1211	COLUSA GENERATING STATION	2/11/2011	(NORMAL OPERATION)	NATURAL GAS	120	MW	TWO (2) NATURAL GAS FIRED TURBINES AT 172 MW EACH. BOTH TURBINES EQUIPPED WITH A 688 MMBTU/HR DUCT BURNER AND HRSG.	USE NATURAL GAS	12.6	llh/hr	STACK TEST						
CA-1211	STATION	3/11/2011		UAS	17.	191.99	TWO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATED	USE NATURAL GAS	13.3	tout	STACK TEST	· '		+	1		+
			COMBUSTION TURBINES				AT 154 MEGAWATT (MW, GROSS) EACH, TWO HEAT RECOVERY STEAM GENERATORS (HRSG), ONE STEAM TURBINE GENERATOR (STG) RATED AT 267		1								
	PALMDALE HYBRID		(NORMAL	NATURAL			MW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH		1		9-HR AVG (NO			9-HR AVG (W/			
CA-1212	POWER PROJECT	10/18/2011	OPERATION) NATURAL-GAS	GAS	150	MW	ASSOCIATED HEAT-TRANSFER EQUIPMENT	USE PUC QUALITY NATURAL GAS	0.0048	LB/MMBTU	DUCT BURNING	0.0049	LB/MMBTU	DUCT BURNING)	0	+
			FIRED,					NATURAL GAS QUALITY FUEL	1								
CO-0056	ROCKY MOUNTAIN ENERGY CENTER, LLC	5/2/2006	COMBINED- CYCLE TURBINE	NATURAL GAS	30	MW	ONE NEW COMBINED-CYCLE TURBINE IS BEING ADDED TO AN EXISTING FACILITY	ONLY AND GOOD COMBUSTION CONTROL PRACTICES	0.0074	LB/MMRTU		10	% OPACITY			0	1
	1	3,2,2000	Four combined	1	300		TACHATT.		0.00/4		AVE OVER				İ		1
*CO-0073	PUEBLO AIRPORT GENERATING STATION	7/22/2016	cycle combution turbines	natural gas	17	mmbtu/hr	Three GE, LMS6000 PF, natural gas-fired, combined cycle CTG, rated at 373 MMBtu per hour each, based on HHV and one (1) HRSG each with no Duct Burners	Use of pipeline quality natural gas and good combustor design	43	lb/hr	STACK TEST LENGTH		0			0	
	,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	L Kura Kura				Inc	1 7.3				-1	-	-	-1	

		IPERMIT ISSUANCE		IPRIMARY			Invenergy, LLC - Allegneny County Energ	ICONTROL METHOD	IEMISSION		IAVG TIME	IEMISSION		IAVG TIME	ISTANDARAD		TAVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			SIEMENS SGT6-														
			5000F COMBUSTION				THROUGHPUT IS FOR TURBINE ONLY WHEN FIRING NATURAL GAS										
			TURBINE #1 AND #2 (NATURAL				TURBINE: 2136 MMBTU/HR (2.095 MMCF/HR)										
			GAS FIRED) WITH 445 MMBTU/HR	ı			DUCT BURNER: 445 MMBTU/HR (0.436 MMCF/HR)										
	KLEEN ENERGY SYSTEMS,		NATURAL GAS	NATURAL			EMISSION RATES ARE FOR EACH COMBUSTION TURBINE FIRING NATURAL GAS,				W/OUT DUCT			W/ DUCT			
CT-0151	LLC		DUCT BURNER COMBINED	GAS NATURAL		I MMCF/H	NOT COMBINED.			11 lb/hr	BURNER 6 MIM BLOCK	15	5.2 lb/hr	BURNER		0	
FL-0265	HINES POWER BLOCK 4	6/8/2005	CYCLE TURBINE COMBUSTION	GAS	531	MW		CLEAN FUELS		10 % OPACITY	AVERAGE		0		1	% OPACITY	
			TURBINE,														
	LANGLEY GULCH POWER		CYCLE W/ DUCT	NATURAL			SIEMENS SGT6-5000F COMBUSTION TURBINE (NGCT, CCGT) FOR ELECTRICAL	GOOD COMBUSTION PRACTICES									
ID-0018	PLANT	6/25/2010	BURNER Electric Generation	GAS (ONLY)	2375.2	MMBTU/H	GENERATION, NOMINAL 269 MW AND 2.1466 MMSCF/HR Two combined cycle combustion turbines followed by HRSGs with capability for supplemental	(GCP)		0	SEE NOTE HOURLY		0			0	
*IL-0112	NELSON ENERGY CENTER	12/28/2010	Facility	Natural Gas	220	MW each	fuel firing in HRSG for each combustion turbine using duct burners.		0.	012 LB/MMBTU	AVERAGE		0			0	
			FOUR (4)				EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR										
			NATURAL GAS COMBINED				IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC										
			CYCLE				EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	COMBUSTION TURBINES	NATURAL GAS	230	MMBTU/H	EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	GOOD CUMBUSTION PRACTICE AND FUEL SPECIFICATION		18 lb/hr	3 HOURS	0.00	78 LB/MMBTU	3 HOURS		D	
	PLAQUEMINE		(4) GAS TURBINES/DUCT	NATURAL			VISUAL INSPECTION FOR OPACITY ON A WEEKLY BASIS, STACK TESTS FOR PM, NOX, SO2, OPACITY, CO				HOURLY			ANNUAL.			
LA-0136	COGENERATION FACILITY	7/23/2008	BURNERS	GAS	287	MMBTU/H	EMISSION POINTS GT-500, -600, -700, -800.	USE OF CLEAN BURNING FUELS	3	3.5 lb/hr	MAXIMUM	1.	39 T/YR	MAXIMUM		0	
			GAS TURBINES -					USE OF CLEAN BURNING FUEL AND GOOD COMBUSTION			HOURLY			ANNUAL			NOT
LA-0192	CRESCENT CITY POWER	6/6/2005	5 187 MW (2)		200	MMBTU/H		PRACTICES WHILE FIRING NATURAL GAS: USE	1 2	9.4 lb/hr	MAXIMUM	128	3.8 T/YR	MAXIMUM		0	AVAILABLE
								OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION									
								PRACTICES									
			COMBINED CYCLE TURBINE				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	WHILE FIRING FUEL OIL: USE OF									
	NINEMILE POINT		GENERATORS				These limits are for each of the 4 turbines individually, while operating with the duct burners	ULTRA LOW SULFUR FUEL OIL			HOURLY			HOURLY			
LA-0254	ELECTRIC GENERATING PLANT	8/16/2011	(UNITS 6A & 6B)	NATURAL GAS	714	6 MMBTU/H	on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct burners.	AND GOOD COMBUSTION PRACTICES	26	i.23 lb/hr	AVERAGE W/O DUCT BURNER	33.	16 lb/hr	AVERAGE W/ DUCT BURNER		0	
			COGENERATION TRAINS 1-3 (1-10,	NATURAL			EACH COGEN TRAIN CONSISTS OF A 50 MW GE LM6000 PF SPRINT TURBINE AND A HEAT RECOVERY STEAM GENERATOR EQUIPPED WITH A 70 MM BTU/HR	USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION			HOURLY						
LA-0256	COGENERATION PLANT	12/6/2011	1 2-10, 3-10)	GAS	47:	MMBTU/H	DUCT BURNER. TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE TOWN GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE TOWN GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE TOWN GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE TOWN GENERAL G	PRACTICES	3	.72 lb/hr	MAXIMUM		0			0	
			2 COMBINED-				COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF										
			CYCLE COMBUSTION	NATURAL			725 MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND			AVERAGE OF THREE STACK						
*MD-0041	CPV ST. CHARLES	4/23/2014	TURBINES	GAS	72:	MEGAWATT	CATALYST CATALYST	NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRACTICE	0.	011 LB/MMBTU	TEST RUNS		0			0	
			2 COMBINED CYCLE														
			COMBUSTION TURBINES.					EXCLUSIVE USE OF PIPELINE			AVERAGE OF 3						
*MD-0042	WILDCAT POINT GENERATION FACILITY	4000	WITHOUT DUCT	NATURAL GAS	27.	MW		QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN		5 1 lb/hr	STACK TEST RUNS						
*MD-0042	GENERATION FACILITY	4/8/2014	FIRING	GAS	270	MW	This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator	EFFICIENT TURBINE DESIGN		5.1 lb/hr	RUNS	_	0			0	
			Combined cycle combustion turbine				(HRSG).										
*MI-0402	SUMPTER POWER PLANT	11/17/2011	w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughout is 2.237 MMBTU/H for each CTG		0.0	066 LB/MMBTU	TEST	7	7.4 lb/hr	TEST		0	
			Natural gas fueled combined cycle				Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam										
	MIDLAND COGENERATION		combustion turbine generators (CTG)				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and a				EACH CTG; TEST			EACH CTG; TEST			
*MI-0405	VENTURE	4/23/2013	with HRSG	Natural gas	223	MMBTU/H	selective catalytic reduction (SCR) system. Natural gas fired CTG with DB for HRSG; 4 total.	Good combustion practices	0.	006 LB/MMBTU	PROTOCOL	0.0	12 LB/MMBTU	PROTOCOL		0	
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
							Permit was issued for either of two F Class turbine technologies with slight variations in										
			FGCCA or FGCCB-	1			emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be	Combustion air filters; efficient			TEST PROTOCOL (3 1						
*MI-0410	THETFORD GENERATING STATION	7.05.0010	4 nat. gas fired CTG w/ DB for HRSG	natural gas	250	MMBTU/H heat input, each CTG	rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up to 1.400 MW	combustion control; low sulfur natural ga-	s	066 LB/MMBTU	H TESTS IF POSSIBLE)						
1921-0410	STATEJN	//25/201:	w. DB for HRSG	naturai gas	258	r cacii CIG	This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle natural gas-	Iuci.	0.0	LD/MINIDIU	(USSIBLE)		0			1	
			FG-CTGHRSG: 2				fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSGs) equipped with duct burners for supplemental firing (EUCTGHRSG1 & EUCTGHRSG2 in										
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		Combined cycle CTGs with HRSGs			MMBTU/H for each	FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period. Each CTGHRSG shall not exceed 647	Good combustion practices and the use of			TEST						
*MI-0412	STREET STREET	12/4/2013	CTGs with HRSGs with duct burners	natural gas	64	MMBTU/H for each CTGHRSG	MMRtu/hr on a fuel heat input basis	Good combustion practices and the use of pipeline quality natural gas.	0.	014 LB/MMBTU	PROTOCOL		0			0	
							steam generator and a natural gas-fired duct burner. Each										
							CT combusts natural gas as the primary fuel and very low- sulfur No. 2 fuel oil as a backup fuel. The use of fuel										
			TURBINE,				oil is limited to 1,200 hours per year and only during the										
			COMBINED CYCLE,				months of November through March, and is listed as a separate process. These units are listed	USE OF ONLY CLEAN-BURNING LOW-SULFUR									
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	NATURAL GAS,	NATURAL GAS	1944	MMRTU/H	as a combined source (all three units) for each type of	FUELS AND GOOD COMBUSTION PRACTICES.		019 LB/MMBTU	based on 3-hour		0				
	CONSTRUCTOR PLANT	9/29/2003	TURBINE,	una	1844	- MIDI C/II	AMACA.	CLEAN FUELS - NATURAL GAS	0.	LIMINIDIU	average		1		1	1	1
NJ-0074	WEST DEPTFORD ENERGY	5/6/2009	COMBINED	NATURAL GAS	1729	8 MMFT3/YR		AND ULTRA LOW SULFUR (15PPM SULFUR) DISTILLATE OIL	15	.66 lb/hr			0			0	
		2.3200	Combined Cycle		.725		Natural Gas Usage <= 33,691 MMft^3/yr per 365 consecutive day period, rolling one	,							1		
	PSEG FOSSIL LLC		Combustion Turbine				day basis (per two turbines and two duct				AVERAGE OF						
*NJ-0081	SEWAREN GENERATING STATION	3/7/2014	-Siemens turbine without Duct Burner	Natural gas	3369	I MMCubic ft/yr	burners) The heat input rate of each Siemens combustion turbine will be 2,356 MMBtu/hr(HHV)	USE OF NATURAL GAS A CLEAN BURNING FUEL		13 lb/hr	THREE ONE HOUR TESTS		0			0	
		3///2014		1arana gas	3309	cuote te ji					LIOUR ILUIS		-1			1	

				IRRING BY			Invenergy, LLC - Allegheny County Energ		TELEPOOLON.		LANCEMBAR	TELEGRAPH.		IAVG TIME	ISTANDARAD		Live Time
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	LIMIT 2	UNIT		STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			COMBINED CYCLE														
			COMBUSTION				Natural Gas Usage <= 33,691 MMft^3/yr										
			TURBINE				per 365 consecutive day period, rolling one										
	PSEG FOSSIL LLC		WITHOUT DUCT BURNER -				day basis (per two turbines and two duct burners)				AVERAGE OF						
	SEWAREN GENERATING		GENERAL				The heat input rate of each General Electric combustion turbine will be 2,312	Use of Natural Gas as a clean burning			THREE ONE						
'NJ-0081	STATION	3/7/2014	ELECTRIC	Natural Gas	336	1 MMCF/YR	MMBtu/hr(HHV) This is a 427 MW Siemens Combined Cycle Turbine with duct burner	fuel	12.	.7 lb/hr	HOUR TESTS		0			0	
							Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)				AVERAGE OF						
	WEST DEPTFORD ENERGY		Combined Cycle Combustion Turbine				Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)				THREE ONE HOUR STACK						
NJ-0082	STATION	7/18/2014	without Duct Burner	Natural Gas	202	2 MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burner.	Use of natural gas a clean burning fuel	1	0 lb/hr	TESTS		0			0	
NY-0095	CAITHNES BELLPORT ENERGY CENTER	5/10/2004	COMBUSTION TURBINE	NATURAL GAS	22	1 MMBUT/H	COMPINIED CVCLE WITH DUCT FIRING UP TO 494 MMPTUAL	LOW SULFUR FUEL	0.005	5 LB/MMBTU	NO DUCT BURNING	0.00	56 LB/MMBTU	W/DUCT BURNING			
¥1*0093	ENERGI CENTER	3/10/2000		UAS	22.	MMBCI/II	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H Two Missibsin 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will	EOW SCEPCK POLE	0.00.	S LB/MMBTC	BURNING	0.00	O LEMMBIC	BUKINENG			
			2 Combined Cycle Combustion				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined).										
	OREGON CLEAN ENERGY		Turbines-Siemens,			MMSCF/rolling 12-	Short term limits are different with and without duct burners.							PER ROLLING 12			
OH-0352	CENTER	6/18/2013	without duct burners	Natural Gas	5156	0 months	This process without duct burners.	clean burning fuel, only natural gas	13.	.3 lb/hr		61	.3 T/YR	MONTHS		0	
							Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300										
			2 Combined Cycle				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
	OREGON CLEAN ENERGY		Combustion Turbines-Mitsubishi				install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.							PER ROLLING 12			
OH-0352	CENTER	6/18/2013	without duct burners	Natural Gas	479	7 MMSCF/rolling 12-MO	Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	clean burning fuel, only natural gas	11.	3 lb/hr		44	.2 T/YR	MONTHS		0	
			Turbines (4) (model				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners										
	DUKE ENERGY HANGING		GE 7FA) Duct	NATURAL			off. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Burning natural gas in an efficient						PER ROLLING 12			
OH-0356	ROCK ENERGY	12/18/2012	Burners Off	GAS	11	2 MW	burners.	combustion turbine	1	5 lb/hr		87	.2 T/YR	MONTHS		0	
	PSO SOUTHWESTERN		GAS-FIRED					USE OF LOW ASH FUEL (NATURAL		1		1					
K-0117	POWER PLT	2/9/2007	TURBINES					GAS) AND EFFICIENT COMBUSTION	N 0.009	3 LB/MMBTU			0			0	
			COMBINED CYCLE							1		1					
			COGENERATION	NATURAL						1		1					
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	>25MW COMBINED	GAS	183	2 MMBTU/H	SIEMENS V84.3A	NATURAL GAS FUEL	6.5	9 lb/hr	3-H AVG	0.00	5 LB/MMBTU	24-H AVG		0	
			CYCLE NATURAL														
			GAS-FIRED ELECTRIC														
			GENERATING	NATURAL													
OR-0048	CARTY PLANT	12/29/2010	UNIT	GAS	286	6 MMBTU/H		CLEAN FUEL	2.	.5 LB/MMCF		0.00	3 LB/MMBTU			0	
	MOXIE ENERGY LLC/PATRIOT		Combined Cycle Power Blocks 472				Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a										
PA-0286	GENERATION PLT	1/31/2013	MW - (2)	Natural Gas		0	combustion turbine and heat recovery steam generator with duct burner.		0.005	7 LB/MMBTU			54 T/YR	TOTAL PM		0	
	BERKS HOLLOW ENERGY		Turbine, Combined								12-MONTH ROLLING						
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013		Natural Gas	30-	6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst The plant will be designed to generate 1,350 nominal megawatts of power. There are two		48.5	6 T/YR	TOTAL		10 lb/hr			0	
							The plant will be designed to generate 1,350 nominal megawatts of power. There are two configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode										
							(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B	use of low ash fuel (natural gas or low									
TX-0590	KING POWER STATION	8/5/2010		natural gas	13:	0 MW	also includes one or two auxiliary boilers.	sulfur diesel as a backup)	11.	.1 lb/hr		15	.8 lb/hr			0	
TX-0618	CHANNEL ENERGY CENTER LLC	10/15/2012	Combined Cycle	natural gas	1:	10 MW	The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a maximum design heat input of 475 MMBtu/hr.	good combustion and the use of gaseous fuel	,	7 lb/hr			0			0	
174 0010	CENTERCESC	10/13/2012	Turonic	natural gas			Inatural gas-fired combined cycle turbine generator with a heat recovery steam generator	1101	*								
	DEER PARK ENERGY		Combined Cycle				equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts and the DB will have a maximum design rate capability of 725 million British thermal units	good combustion and the use of natural									
TX-0619	CENTER	9/26/2012		natural gas	11	0 MW	per hour	gas	2	7 lb/hr			0			0	
							The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a										
							maximum base-load electric power output of approximately 195 megawatts (MW). The steam										
TX-0620	ES JOSLIN POWER PLANT	9/12/2012	Combined cycle gas	natural gas		5 MW	turbine is rated at approximately 235 MW. This project also includes the installation of two	good combustion and natural gas as fuel		8 lb/hr	PER TURBINE					0	
1 A-0020		9/12/2012	Combined-cycle gas	naturai gas	15	3 NW	emergency generators, one fire water pump, and auxiliary equipment. No duct burners.	good combustion and natural gas as fuel	· '	8 it/mr	PER TURBINE		0	_		0	+
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/2015	turbine electric	l.,		10 MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA 02			3 Ib/hr							
1A-0/30	CENTER	4/1/2013	Combined Cycle	natural gas	110	IO M W	GE /RA.92	efficient combustion, natural gas fuel	4	3 10/ftr	_	+	U	+		0	+
	L. O. P. MOUNTE		Turbines (>25				Two power configuration options authorized										
*TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	6/18/2015	MW) – natural gas	natural gas	,	0 MW	Siemens 倓 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner GE 倓 210 MW + 349.2 MMBtu/hr duct burner		35.4	7 lb/hr		81	38 T/YR			0	
									33.4			01.					
	LON C. HILL POWER		Combined Cycle Turbines (>25				Two power configuration options authorized Siemens â€* 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner	Good combustion practices and use of		1		1					
*TX-0767	STATION	10/2/2015	MW)	natural gas	15	5 MW	GE ⢓ 195 MW + 670 MMBtu/hr duct burner	pipeline quality natural gas	1	6 lb/hr		109	.5 T/YR			0	
			COMBINED CYCLE TURBINE								3 HR AVG. (WITHOUT			3 HR. AVG. (WITH DUCT			
	WARREN COUNTY POWER		& DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Natural Gas only, fuel has maximum			DUCT BURNER			BURNER			
VA-0315	PLANT - DOMINION	12/17/2010	BURNER, 3	Natural Gas	29	6 MMBTU/H	generator, Model M501 GAC).	sulfur content of 0.0003% by weight.		8 lb/hr	FIRING)		4 lb/hr	FIRING)		0	
	GATEWAY COGENERATION 1, LLC -		COMBUSTION				Burns primarily natural gas but has the capacity to burn up to 500 hours of ultra low sulfur	Clean-burning fuels and good combustion	n	1							
VA-0319	SMART WATER PROJECT	8/27/2012	TURBINES, (2) COMBUSTION	Natural Gas	5	3 MMBTU/H	diesel fuel (ULSD) as backup.	practices.		5 lb/hr	3 H AVG		0	2.11		0	
	BRUNSWICK COUNTY		COMBUSTION TURBINE				Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners	Low sulfur/carbon fuel and good		1	3 H AVG/WITHOUT			3 H AVG/WITHOUT			
*VA-0321	POWER STATION	3/12/2013	GENERATORS, (3)	Natural Gas	344	2 MMBTU/H	(natural gas-fired).	combustion practices.	0.003	3 LB/MMBTU	DUCT BURNING	3 9	.7 lb/hr	DUCT BURNING		0	
			GE 7FA COMBUSTION							1		1					
			TURBINE & amp;							1							
	BP CHERRY POINT		HEAT RECOVERY STEAM	NATURAL			THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER	LIMIT FUEL TYPE TO NATURAL		1							
WA-0328	COGENERATION PROJECT	1/11/2005	GENERATOR	GAS	11	4 MW	WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR.	GAS	1	7 lb/hr			0			0	*SEE NOTES
			COMBUSTION TURBINE #2								12-MONTH						
			(NORMAL							1	ROLLING AVG						
	VICTORVILLE 2 HYBRID		OPERATION, NO							1	(NO DUCT	1					
		3/11/2010	DUCT BURNING)	GAS	1:	4 MW	154 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS	1	2 lb/hr	BURNING) 12 MONTH	+	0			0	1
CA-1191	POWER PROJECT					1	I .	1	1	1	ROLLING		1	1	1	1	1
	GARRISON ENERGY							Fuel Usage Restriction to natural gas and	1								1
CA-1191 DE-0024		1/30/2013	Unit 1	Natural Gas	220	0 million BTUs		Fuel Usage Restriction to natural gas and low sulfur distillate oil	120.	.4 T/YR	AVERAGE		0			0	
DE-0024	GARRISON ENERGY		Combustion turbine		220	0 million BTUs	two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258 mmBtu/fir generating approx. 300 MW each.	low sulfur distillate oil	120.	4 T/YR 01 LB/MMBTU			0 .1 T/YR	12-MONTH ROLLING		0	

		PERMIT ISSUANCE	1	PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE DATE	PROCESS NAME		THROUGHPUT	THROUGHPUT UNIT			LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
		1	Combined Cycle											1			1
			Refrigeration														
	SABINE PASS LNG		Compressor					Good combustion practices and fueled by			HOURLY						
A-0257	TERMINAL	12/6/2011	Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4	natural gas	2.08	lb/hr	MAXIMUM	0			0		
							Throughput is 2,237 MMBTU/H for each CTG										
							n :										
			Natural gas fueled				Equipment is permitted as following flexible group (FG):										
			combined cycle combustion turbine				FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				EACH CTG:						
	MIDLAND COGENERATION		generators (CTG)				to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a				TEST						
'MI-0405	VENTURE		with HRSG	Natural gas	2237	MMBTU/H	to one steam turbine generator. Each CTO is equipped with a dry low NOX (DLN) burner and a selective catalytic reduction (SCR) system.	Good combustion practices	0.006	LB/MMBTU	PROTOCOL						
	TETTORE	472372011	with Theory	Tructurur gust	22.77	MINIDI CITI	The plant will be designed to generate 1,350 nominal megawatts of power. There are two	Cood communion practices	0.000	LD/MINDTO	TROTOCOL				· ·		
							configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode	use low ash fuel (natural gas or low sulfur									
							(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B										
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural gas	1350	MW	also includes one or two auxiliary boilers.	practices	11.1	lb/hr		19.8	lb/hr		0		
							The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a										
							maximum base-load electric power output of approximately 195 megawatts (MW). The steam										
			Combined cycle gas				turbine is rated at approximately 235 MW. This project also includes the installation of two										
TX-0620	ES JOSLIN POWER PLANT	9/12/2012		natural gas	195	MW	emergency generators, one fire water pump, and auxiliary equipment. No duct burners.	good combustion and natural gas as fuel	18	lb/hr	PER TURBINE	0			0		
	COLOR LDO DEND EL		Combined-cycle gas				The state of the s										
TV 0720	COLORADO BEND ENERGY CENTER	4/1/2015	turbine electric		1100	Low.	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA 02		4.7	lb/hr		_					
TX-0730	CENTER	4/1/2013	generating facility COMBUSTION	natural gas	1100	MW	GE /HA.U2	efficient combustion, natural gas fuel	43	Ib/hr	2.11	0		2.11	- 0	-	
	BRUNSWICK COUNTY		TURBINE	1			The COMPartition Man CAC contrain to the contraint HTCC 1	Low sulfur/carbon fuel and good	1	1	3 H AVG/WITHOUT	1		AVG/WITHOUT	1		1
VA-0321	POWER STATION	3/12/2013	GENERATORS, (3)	Notes Co.	2442	MMBTU/H	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners (natural gas-fired).	combustion practices.	0.0022	LB/MMBTU	DUCT BURNING	0.7	lb/hr	DUCT BURNING			
VA-0321	CHEYENNE PRAIRIE	3/12/2013	Combined Cycle	Naturai Gas	3442	MMB1U/II	(naturai gas-irreu).	combustion practices.	0.0033	LB/MMB1U	3-HOUR	9.7	10/Hr	CALENDAR			
WY-0070	GENERATING STATION	8/28/2012	Turbine (EP01)	Natural Gas	40	MW		good combustion practices	4	llb/hr	AVERAGE	17.5	T/YR	YEAR			
11 1-0070	GEREICHING STITTION	0.202012	ruionic (Li 01)	Tutturur Gub				good companion practices	,	10-11	1-hr average; Duct	17.0		1-hr average; Duct	· · · · · · · · ·		
	Astoria Energy LLC		Combustion Turbine	Natural Gas	1000	MW		Clean Fuel	0.0098	LB/MMBTU	Burners Off	12.9	lb/hr	Burners Off			
	Gibson County Generation,																
	LLC		Combustion Turbine	Natural Gas	417	MW			0.0048	LB/MMBTU	24-hr average						
	Pioneer Valley Energy Center		Combustion Turbine	Natural Gas	2542	MMBtu/hr			0.004	LB/MMBTU		9.8	lb/hr				
	Russell City Energy Company,																
	LLC		Combustion Turbine	Natural Gas	2038.6	MMBtu/hr			7.5	lb/hr		0.0036	lb/MMBtu				
	L					l											
	Tenaska Partners LLC UGI Development Co/ Hunlock		Combustion Turbine	Natural Gas	3147	MMBtu/hr			11.8	lb/hr		0.0039	lb/MMBtu				
	Creek	·		Natural Gas	471.2	MMBtu/hr			0.0141	LB/MMBTU							
	Hawkeye Generating, LLC			Natural Gas		MW				LB/MMBTU		211.86	T/VD				
	Huntington Beach Energy			Naturai Gas	013	IVI VV			0.011	LIMMITO		211.00	1/1K				
	Project			Natural Gas	020	MW (net)			4.5	lb/hr							
	Tioject			Natural Gas	737	IVI W (IICI)			4.0	IOII							
	Hess Newark Energy Center		Combustion Turbine	Natural Gas	2320	MMBtu/hr			11	lb/hr							
	York Energy Center Block 1				1574	MMBtu/hr			0.0141	LB/MMBTU	hourly basis						
	Liberty Electric Power, LLC				1954	MMBtu/hr			0,0141	LB/MMBTU				1			1
	Footprint Power Salem Harbor	t	—		1,554				5.0141		1-hr average; Duct			1-hr average; Duct			
	Development LP		Combustion Turbine	Natural Gas	346	MW		Clean Fuel	8.8	lb/hr	Burners Off	0.0071	lb/MMBtu	Burners Off	1		1
	Footprint Power Salem Harbor										1-hr average; Duct						
	Development LP		Combustion Turbine	Natural Gas	346	MW		Clean Fuel	0.041	lb/MW-hr	Burners Off						
											30-day rolling						
	PacifiCorp Energy		Block 1 CT	Natural Gas					10.8	lb/hr	average						
	n :50 n		DI LA CT								30-day rolling						
	PacifiCorp Energy		Block 2 CT	Natural Gas	629	MW			14	lb/hr	average						
	Woodbridge Energy Center (CPV Shore, LLC)		1	Natural Gas	2 207	MMBtu/hr				lb/hr		1		1	1		1
	(Cr v Shore, LLC)			ivaturai Gas	2,307	MINISTU/hr			12.1	10/mf	-			+			
	Hummel Station LLC		Combustion Turbine	Notuml Gas	2 254 00	MMBtu/hr			17.2	lb/hr		1		1	1		1
	Trummer Station LLC		Combustion Lurbine	i vacurai Gas	2,254.00	INTINIDIU/III			17.3	torif	1	<u> </u>		+	-	-	-
	Hummel Station LLC		Combustion Turbine	Natural Gas	2 254 00	MMBtu/hr			14	lb/hr							1
	THE STATE OF THE S	-	Compussion rurbine	- sucurar Gas	2,234.00			Combusting commercially available,	14	and and	1	-		+	-		
			1	1				pipeline natural gas in the turbines and	1	1		1		1	1		1
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW		duct burners	0.006	LB/MMBTU	1-hr average						1
	Gibson County Generation,				1					l				1			
	LLC		Combustion Turbine	Natural Gas	417	MW			28.9	lb/hr		0.0088	lb/MMBtu	24-hr average	1		1
		1			1						average of 3 test				t		
	York Energy Center Block 2	6/15/2015				MMBtu/hr	firing NG without duct burner			lb/hr							

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME KILLINGLY ENERGY	DATE	PROCESS NAME Natural Gas w/Duct	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
CT-0161	CENTER	6/30/2017	Firing	Natural Gas	2639	MMBtu/hr	Duct burner MRC is 946 MMbtu/hr	Good Combustion	0.00	5 LB/MMBTU			0		0		
LA-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Combined Cycle Unit 1A	Natural Gas	3625	MMBTU/hr		Good combustion practices and clean burning fuels (natural gas)	17.5	2 LB/H	HOURLY MAXIMUM	73.3	5 T/YR	ANNUAL MAXIMUM	0		
LA-0313	ST. CHARLES POWER STATION		SCPS Combined	V . 10		MMBTU/hr		Good combustion practices and clean	17.5	2 I B/H	HOURLY MAXIMUM	72.2	5 T/YR	ANNUAL MAXIMUM			
			Cycle Unit 1B FGCTGHRSG (2	Natural Gas			There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs)	burning fuel (natural gas) Good Combustion Practices, inlet air			TEST	/3.3	S I/YK	MAXIMUM			+
MI-0423	INDECK NILES, LLC HOLLAND BOARD OF	1/4/2017	Combined Cycle FGCTGHRSG (2	Natural gas	8322	MMBTU/H	with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 & Two combined cycle natural gas fired combustion turbine generators (CTGs) with	conditioning, and the use of pipeline Good combustion practices and the use of		8 LB/H	PROTOCOL TEST	-	0	_	0		+
MI-0424	PUBLIC WORKS - EAST 5TH	12/5/2016	Combined cycle	Natural gas	554	MMBTU/H, each	heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in	pipeline quality natural gas.	0.01	4 LB/MMBTU	PROTOCOL		0		0		
*MI-0432	NEW COVERT GENERATING FACILITY	7/30/2018	FG-TURB/DB1-3 (3 combined cycle	Natural gas	1230	MW	Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG) trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped	Use clean fuel (natural gas) and good combustion practices.	10	7 I B/H	HOURLY; EACH CT/HRSG TRAIN	I .	0				
	MEC NORTH, LLC AND		EUCTGHRSG				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat	Good combustion practices, inlet air									
*MI-0433	MEC SOUTH LLC MEC NORTH, LLC AND	6/29/2018	(South Plant): A EUCTGHRSG	Natural gas	500	MW	recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr	conditioning, and the use of pipeline Good combustion practices, inlet air	19.	.1 LB/H	HOURLY	<u> </u>	0	_	- 0		+
*MI-0433	MEC SOUTH LLC BELLE RIVER COMBINED	6/29/2018	(North Plant): A	Natural gas	500	MW	(HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV).	conditioning, and the use of pipeline	19.	1 LB/H	HOURLY: EACH	-	0	HOURLY; EACH	0		
*MI-0435	CYCLE POWER PLANT	7/16/2018	FGCTGHRSG (EUCTGHRSG1	Natural gas	0		Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat recovery steam generator (CTGHRSG).	Good combustion practices, inlet air conditioning and the use of pipeline	1	6 LB/H	UNIT	12.	2 LB/H	UNIT W/O DUCT	0		
NJ-0085	MIDDLESEX ENERGY CENTER, LLC		Combined Cycle		4000	1.6-		COMPLIANCE BY STACK TESTING	18	.3 LB/H	AV OF THREE ONE H STACK						
	MIDDLESEX ENERGY		Combustion Turbine Combined Cycle	natural gas				USE OF NATURAL GAS A CLEAN			AV OF THREE		U				+
NJ-0085	CENTER, LLC TENASKA PA	7/19/2016	Combustion Turbine Large combustion	Natural Gas	8040	H/YR	This process entry is for operations with the duct burner. Limits entered are for each	BURNING FUEL	11.	7 LB/H	ONE H STACK	-	0		0		
*PA-0306	PARTNERS/WESTMORELA	2/12/2016	turbine	Natural Gas	0		turbine.	Good combustion practices	0.003	9 LB/MMBTU		11.	8 LB/HR		0		
*PA-0310	CPV FAIRVIEW ENERGY CENTER	0/2/2016	Combustion turbine and HRSG with duc	Notural Gas	2229	MMBtu/hr	Emission limits are for each turbine operating with duct burner and do not include startup/shutdown emissions. Tons per year limits is a cumulative value for all three	Low sulfur fuel, good combustion practices	0.00	5 LB/MMBTU		121	5 TONS	12-MONTH ROLLING BASIS			
	CPV FAIRVIEW ENERGY		Combustion turbine	Naturar Gas	3336	MINIDIANI	Emission limits are for each turbine fueled by NG and operating without duct	Low sulfur fuels and good combustion				131.	JONS	ROLLENG BASIS			+
*PA-0310	CENTER GAINES COUNTY POWER	9/2/2016	and HRSG without Combined Cycle	Natural gas NATURAL	0		burner being fired and do not include startup/shutdown emissions. Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and	Pineline quality natural one; good	0.006	8 LB/MMBTU		-	0		0		+
TX-0819	PLANT	4/28/2017	Turbine with Heat	GAS	426	MW	Steam Turbine Generators	combustion practices		0			0		0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	COMBUSTION TURBINE	natural gas	3227	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	Pipeline Quality Natural Gas	0.003	9 LB/MMBTU	AVG OF 3 TEST RUNS	14	I LB/H		0		
	INTERNATIONAL STATION		GE LM6000PF-25								3-HOUR	1					
AK-0071	POWER PLANT INTERNATIONAL STATION	12/20/2010	Turbines (4) GE LM6000PF-25	Natural Gas		hp ISO	Turbine-duct burner pairs exhaust through common stack	Good Combustion Practices	0.006		AVERAGE 3-HOUR	<u> </u>	0	+	0		+
AK-0071	POWER PLANT	12/20/2010	Turbines (4) COMBUSTION	Natural Gas	59900	hp ISO	Turbine-duct burner pairs exhaust through common stack	Good Combustion Practices	0.006	6 LB/MMBTU	AVERAGE		0		0		
			TURBINE #2														
			(NORMAL OPERATION,								12-MONTH ROLLING AVG						
	VICTORVILLE 2 HYBRID		WITH DUCT	NATURAL							(W/ DUCT						
CA-1191	POWER PROJECT	3/11/2010	BURNING) COMBUSTION	GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS	1	8 lb/hr	BURNING)		0		0		
			TURBINE #1 (NORMAL								12-MONTH						
			OPERATION,								ROLLING AVG						
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	2/11/2010	WITH DUCT BURNING)	NATURAL GAS	154	MW	154 MW Combined Cycle Combustion Turbine Generator	USE PUC QUALITY NATURAL GAS	Ι.	0 11.4	(W/ DUCT BURNING)	l .					
CA-1191	POWER PROJECT	3/11/2010	COMBUSTION	UAS	134	MW	134 M W Combined Cycle Compussion Turbine Generator	USE FOC QUALITY NATURAL GAS	· '	8 ID/III	BURNING	<u> </u>	U				+
			TURBINE #2 (NORMAL														
			OPERATION,														
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	WITH DUCT BURNING)	NATURAL GAS	180	MW		USE PUC QUALITY NATURAL GAS	11.7	8 lb/hr	12-MONTH ROLLING AVG		0		0		
								USE PIPELINE QUALITY NATURAL									
			COMBUSTION					GAS, OPERATE DUCT BURNERS NO			6-HR ROLLING			6-HR ROLLING			
CA-1198	MORRO BAY POWER PLANT	9/25/2008	TURBINE GENERATOR	NATURAL GAS	180	MW		MORE THAN 4000 HRS PER YEAR (12-MONTH ROLLING AVG BASIS)	١,	1 llb/br	AVG (NO DUCT BURNING)	13	3 llb/br	AVG (W/ DUCT BURNING)			
C.1-1150	12201	7/23/2000	GENERATION	Corto	100		TWO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATED AT 154 MEGAWATT (MW. GROSS) EACH, TWO HEAT	(12 MONTH ROLLING TVG BIDE)		110111	DOIGHING)	15.	7 10 11	DOK! LIKE)			
			COMBUSTION				RECOVERY STEAM GENERATORS (HRSG), ONE STEAM TURBINE										
	PALMDALE HYBRID		TURBINES (NORMAL	NATURAL			GENERATOR (STG) RATED AT 267 MW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH ASSOCIATED HEAT-TRANSFER				9-HR AVG (NO			9-HR AVG (W/			
CA-1212	POWER PROJECT	10/18/2011	OPERATION)	GAS	154	MW	EQUIPMENT	USE PUC QUALITY NATURAL GAS	0.004	8 LB/MMBTU	DUCT BURNING	0.004	LB/MMBTU	DUCT BURNING	0		
	GARRISON ENERGY							Fuel Usage Restriction to natural gas and			12 MONTH ROLLING						
DE-0024	CENTER	1/30/2013	Unit 1	Natural Gas	2260	million BTUs		low sulfur distillate oil	120	4 TONS/Y	AVERAGE		0		0		
			Electric Generation				Two combined cycle combustion turbines followed by HRSGs with capability for				HOURLY			1			
*IL-0112	NELSON ENERGY CENTER	12/28/2010		Natural Gas	220	MW each	supplemental fuel firing in HRSG for each combustion turbine using duct burners. EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL		0.00	6 LB/MMBTU	AVERAGE		0	1	0		+
							GAS FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM										
			FOUR (4) NATURAL GAS				GENERATOR IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH	1			1			1			
			COMBINED				CO AND VOC EMISSSIONS CONTROLLED BY OXIDATION CATAYLST										
	ST. JOSEPH ENEGRY		CYCLE COMBUSTION	NATURAL			SYSTEMS (CAT##) IN EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMIAL POWER	GOOD COMBUSTION PRACTICE									
*IN-0158	CENTER, LLC	12/3/2012	TURBINES	GAS	2300	MMBTU/H	OUTPUT IS 1.350 MW.	AND FUEL SPECIFICATION WHILE FIRING NATURAL GAS: USE	1	8 lb/hr	3 HOURS	0.007	8 LB/MMBTU	3 HOURS	0		
								OF PIPELINE QUALITY NATURAL									
								GAS AND GOOD COMBUSTION PRACTICES									
			COMBINED														
	NINEMILE POINT		CYCLE TURBINE GENERATORS				TURBINES ALSO PERMITTED TO BURN NO. 2 FUEL OIL AND ULTRA LOW SULFUR DIESEL.	WHILE FIRING FUEL OIL: USE OF ULTRA LOW SULFUR FUEL OIL			HOURLY			HOURLY			
LA-0254	ELECTRIC GENERATING	8/16/2011	(UNITS 6A & amp;	NATURAL		Lammin		AND GOOD COMBUSTION			AVERAGE W/O	33.10		AVERAGE W/ DUCT BURNER			
LA-0254	PLANT	8/16/2011	6B) COGENERATION	IGAS	7146	MMBTU/H	FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR. EACH COGEN TRAIN CONSISTS OF A 50 MW GE LM6000 PF SPRINT	PRACTICES USE OF NATURAL GAS AS FUEL	26.2	.5 11b/hr	DUCT BURNER	33.1	b Hb/hr	DUCT BURNER	1 0		+
LA-0256	COGENERATION PLANT	12/6/2011	TRAINS 1-3 (1-10, 2-10, 3-10)	NATURAL GAS	475	MMBTU/H	TURBINE AND A HEAT RECOVERY STEAM GENERATOR EQUIPPED WITH A 70 MM BTU/HR DUCT BURNER.	AND GOOD COMBUSTION PRACTICES	3.7	12 llb/br	HOURLY MAXIMUM		0				
L. 1-0230	COGLARATIONTLANT	12/6/2011	Combined Cycle		4/3		WITTE TO SIM DIOTIK DOCT BORNER.	I KI CI ICES	3./	Z I I I I I	- AAAMON			1			
	SABINE PASS LNG		Refrigeration Compressor					Good combustion practices and fueled by			HOURLY						
LA-0257	TERMINAL	12/6/2011	Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4	natural gas	2.0	18 lb/hr	MAXIMUM 1 HR AVG/DO		0	LUB AVC/PC	0		
	SALEM HARBOR STATION		Combustion Turbine				two 315 MW (nominal) GE Energy 7F Series 5 Rapid Response Combined Cycle Combustion Turbines with Duct Burners and 31 MW (estimated) steam turbine				NOT APPLY			1 HR AVG/DO NOT APPLY			
*MA-0039	REDEVELOPMENT	1/30/2014	with Duct Burner	Natural Gas	2449	MMBtu/hr	generators		0.006	2 LB/MMBTU	DURING SS	1	3 lb/hr	DURING SS	0		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*MD-0042	WILDCAT POINT GENERATION FACILITY	48/2014	2 COMBINED CYCLE COMBUSTION TURBINES, WITH DUCT FIRING	NATURAL GAS	100) MW	TIWO MITSUBSHI & BLOQUE, BLOQUE, CABLOQUE, CABO, WODEL COMBUSTION TURBING EBREATORS (CTS) WITH A NOMINAL GENERATING CAPACITY OF 270 MW CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STRAM GENERATOR (BIRSG) GEUDPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS, SELECTIVE CATALYTIC REDUCTOR (SECR), OXIDATION CATALYST	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	25	l llade	AVERAGE OF 3 STACK TEST RUNS						
-MID-0042	GENERATION FACILITY	4/8/2014	DUCT FIREING	UAS	100) MW	Throughput is 2,237 MMBTU/H for each CTG	EFFICIENT TURBINE DESIGN	30	itoriir	RUNS	1			, ·		
*MI-0405	MIDLAND COGENERATION VENTURE	4/23/2013	Natural gas fueled combined cycle combustion turbine generators (CTG) with HRSG	Natural gas	223	7 MMBTU/H	Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected to one steam turbine generator. Each CTG is equipped with a dry low Not (DAI) burner and a selective catalytic reduction (SCR) system	. Good combustion practices	0.006	LB/MMBTU	EACH CTG; TEST PROTOCOL	0.012	LB/MMBTU	EACH CTG; TEST PROTOCOL	0		
*MI-0405	MIDLAND COGENERATION VENTURE	4/23/2013	Natural gas fueled combined cycle combustion turbine generators (CTG) with HRSG and duc- burner (DB)	t Natural gas	248	5 MMBTU/H	Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct humers on. This permit is a modification to RBLC OH-0252 to remove honly restrictions on duct burners.	Good combustion practices	0.005	LB/MMBTU	TEST PROTOCOL	10.6	lb/hr	TEST PROTOCOL			
·M1-0403	VENTURE	4/23/2013	burner (DB)	Naturai gas	248	MIMB1U/H	Natural gas fired CTG with DB for HRSG; 4 total.	Good combustion practices	0.008	LEMMETO	PROTOCOL	19.5	, IO/III	PROTOCOL			
*MI-0410	THETFORD GENERATING STATION	7/25/2013	FGCCA or FGCCB- 4 nat. gas fired CTG w/ DB for HRSG	natural gas	258	MMBTU/H heat input,	Technology A (4 total) is 2587 MMBTUH design heat input each CTG. Technology B (4 total) is 2688 MMBTUH design heat input each CTG. Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology, Installation is wo separate CTGHBSG trains diving one steam turbine electrical generator, Two 2XI Blocks. Each CTG will be rate of at 21 to 230 MW (gross) output and the station nominal generating capacity will be up to 1,400 MW.	Combustion air filters, efficient combustion control, low sulfur natural gafale.	s 0.0066	LBMMBTU	TEST PROTOCOL (3 1- H TESTS IF POSSIBLE)				0		
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		FG-CTGHRSG: 2 Combined cycle CTGs with HRSGs			MMBTU/H for each	This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle mutural gas-free combisation turbine generators (CFGS) with Heat Recovery Steam Generators (HRSGs) equipped with duct bumens for supplemental firing (EUCTGHRSG). A EUCTGHRSGC in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month folling time period. Each CTGHRSG shall not exceed 647 MMBHWT on a face!	Good combustion practices and the use o			TEST						
*MI-0412	STREET	12/4/2013	with duct burners TURBINE,	natural gas	64	CTGHRSG	heat input basis.	pipeline quality natural gas. USE OF CLEAN FUELS, NATURAL	0.014	LB/MMBTU	PROTOCOL	1			0		
NJ-0074	WEST DEPTFORD ENERGY	5/6/2009		NATURAL GAS	1729	MMFT3/YR		GAS AND ULTRA LOW SULFUR DISTILLATE OIL	18.66	lb/hr					0		
*NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BURNER - SIEMENS	Natural Gas	3369	MMCUBIC FT PER	Natural Gas Usage <= 33,691 MMft*3/yr per 365 consecutive day period, rolling one day basis (per two Siemens turbines and two associated duct burners) The hear input rate of the Siemens turbine will be 2,356 MMBtu/ht(HHV) with a 62.1 duck burner MMBtu/ht(HHV).	Use of natural gas a clean burning fuel	14	l lb/hr	AVERAGE OF THREE ONE HOUR TESTS	()		0		
*NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	CYCLE COMBUSTION TURBINE WITH DUCT BURNER - GENERAL ELECTRIC	Natural gas	3369	MMCUF/year.	Natural Gas Usage = 33.60 MMfr ³ -3yr per 765 consecutive day period, rulling one lay basis ger row unbines and two duct humers) The heat input rate of each General Electric combustion each turbine will be 2,312 MMBuhrHHHV with a 1644 MMBurch duct burner.	Use of natural gas only as a clean burning fuel	g 14.6	lb/hr	AVERAGE OF THREE ONE HOUR TESTS				0		
	PSEG FOSSIL LLC SEWAREN GENERATING		COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BURNER - GENERAL				Natural Gas Usage <= 33,601 MMft* 3/yr per 365 consecutive day period, rolling one day basis (per twithines and two duct burners) The heat input rate of each General Electric combustion each turbine will be 2,312				AVERAGE OF THREE ONE						
*NJ-0081	STATION	3/7/2014	ELECTRIC	Natural gas	3369	MMCUF/year.	MMBtw/hr(HHV) with a 164.4 MMBtw/hr duct burner	Use of Natural Gas a clean burning fuel	9.8	lb/hr	HOUR TESTS	-			0		
*NJ-0082	WEST DEPTFORD ENERGY STATION	7/18/2014	Combined Cycle Combustion Turbine with Duct Burner	Natural Gas	2028	MMCF/YR	This is a 427 MW Siemens Combined Cycle Turbine with duet burner Heat Input rate of the turbine = 2276 MMbeulre (HHV) Heat Input rate of the Duct burner= 777 MMbeulre(HHV) The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners.	Use of Natural Gas a clean burning fuel	21.55	lb/hr	AVERAGE OF THREE STACK TEST RUNS	0.0069	LB/MMBTU	AVERAGE OF THREE STACK TEST RUNS	0		
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T		Combined-cycle Turbines (2) - Natural gas fired	Natural Gas	327	7 MMBTU/H	Two combine cycle Turbines, each with a combustion turbine and heat recovery steam generator with duct burner. Each combined-cycle process will be rated at 468 MW or less. The heat input rating of each combustion gas turbine is 2890 MMBHu/hr (HHV) or less, and the heat input rating of each supplemental duct burner is equal to 387 MMBHu/hr (HHV) or less.	Using fuel with little or no ash and sulfur	. 0.004	LB/MMBTU	FOR 468 MW POWERBLOCK	0.005	LB/MMBTU	FOR 454 MW POWERBLOCK	0		
	MOXIE ENERGY LLC/PATRIOT		Combined Cycle Power Blocks 472				Two natural-gas-fired combined cycle powerblocks where each powerblock consists							TOTAL PM FOR			
*PA-0286	GENERATION PLT SUNBURY GENERATION		MW - (2) Combined Cycle Combustion Turbine AND DUCT	Natural Gas			of a combustion turbine and heat recovery steam generator with duct burner. Three powerblocks consisting of three (3) natural gas fired F class combustion turbines coupled with three (3) heat recovery steam generators (HSRGs) equipped			LB/MMBTU		54	T/YR	EACH UNIT	0		
*PA-0288	LP/SUNBURY SES BERKS HOLLOW ENERGY		BURNER (3) Turbine, Combined	Natural Gas		MMBTU/H	with natural gas fired duct burners.			LB/MMBTU	12-MONTH ROLLING)		0		
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Cycle, #1 and #2	Natural Gas	304	MMBtu/hr	Equipped with SCR and Oxidation Catalyst The plant will be designed to generate 1,350 nominal megawatts of power. There		48.56	TPY	TOTAL	21.55	lb/hr		0		
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural oas	125	MW	are two configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode (Scenario A) or four GE Frame 7FA CTGs in combined	use of low ash fuel (natural gas or low sulfur diesel as a backup)	,,,,	lb/hr		19.8	lb/hr				
TX-0618	CHANNEL ENERGY CENTER LLC	10/15/2012	Combined Cycle Turbine	natural gas) MW	The turbine is a Siemens 501F rated at a nominal 180 MW and the duct burner will have a maximum design heat input of 475 MMBtu/hr.	good combustion and the use of gaseous fuel	27	lb/hr		15.0			0		
TX-0619	DEER PARK ENERGY CENTER		Combined Cycle Turbine	natural gas	18) MW	natural gas-fired combined cycle turbine generator with a heat recovery steam generator equipped with a duct burner. The turbine is a Siemens 501F rated at a nominal 180 megawatts and the DB will have a maximum design rate capability of 725 million British thermal units per hour		27	lb/hr					0		

		PERMIT ISSUANCE	PROCESS NAME	PRIMARY	l			CONTROL METHOD	EMISSION	ļ	AVG TIME	EMISSION	l	AVG TIME CONDITION	STANDARAD EMISSION LIMIT		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							The generating equipment consists of two natural gas-fired combustion turbines (CTs), each echanistig to a fired bare recovery steam generator (HRSG) to produce steam to drive a shared steam turbine generator. The steam turbine is rated at 271 MW of dectric coupter. There models of combustion turbines are being considered for this site: the General Elector FAAOS, the Siemens SOTO-5000T(4), and the Siemens SOTO-5000T(4). The final selection of the combustion turbine will not be made until after the permit is issued. Plant output will range between 637 and 735 conditions.										
*TX-0641	PINECREST ENERGY CENTER	11/12/2013	combined cycle turbine	natural gas	700	MW	MW, depending on the model turbine selected. Duct Burners are rated at 750 MMBtu/hr each.	pipeline quality natural gas and good combustion practices	26.3	2 lb/hr			0		0		
*TX-0660	FGE TEXAS POWER I AND FGE TEXAS POWER II	3/24/2014			220.5	MW	Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity	Low sulfur fuel, good combustion		, nn. a.r.							
*1 X-0660		3/24/2014	Alstom Turbine	Natural Gas	230.	MW	107 MMDAWIII	practices	 	2 PPMVD			0				
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY	7/16/2014	Combustion Turbine	natural gas	81	MW	The exhaust heat from the turbine will be used to heat a heating medium which is used to regenerate rich amine from the acid gas removal system.		15.22	2 lb/hr			ا				
	CEDAR BAYOU ELECTRIC		Combined cycle														
*TX-0689	GENERATION STATION	8/29/2014	natural gas turbines	Natural Gas	225	MW		Good combustion practices, natural gas		0			0		0		
*TX-0698	BAYPORT COMPLEX	9/5/2013	(4) cogeneration turbines	natural gas	90	MW	(4) GE 7EA turbines providing power and process steam The specific equipment includes two combustion turbines (C1s) connected to		(0			0		0		
							The specific equipment includes two combustion turbines (C1s) connected to electric generators, producing between 183 and 223 MW of electricity, depending on ambient temperature and the selected CT. The two HRSGs use dust burners inted at 750 Mkbush reach to supplement the heat energy from the CTs. The steam from the two HRSGs is combined and routed to a single steam turbine driving a third electric generator with an electricity output equagity of 271 MW. and 225 MW. The applicant is considering three models of CT; one model will be selected and The applicant is considering three models of CT; one model will be selected in the permit revised to reflect the selection before construction begins. The three CT										
	LA PALOMA ENERGY		(2) combined cycle				the permit revised to reflect the selection before construction begins. The three CT models are: (1) General Electric 7FA.04; (2) Siemens SGT6-5000F(4); or (3)										
*TX-0708	CENTER CENTER	2/7/2013	turbines	natural gas	650	MW	Siemens SGT6-5000F(5).			0			0		0		
	SAND HILL ENERGY		Natural gas-fired combined cycle														
*TX-0709	CENTER	9/13/2013	turbines	Natural Gas	173.9	MW	General Electric 7FA.04 at 197 MW nominal oupst. The duet burners will be capable of a maximum natural gas firing rate of up to 483 MMBtuh (HHV). The duet burners may be freid additional bours, bowever, total annual firing will not exceed the equivalent of 4,375 hours at maximum capacity per duet burner. The available capacity of the existing steam turbine will be increased from 125 MW in			D			0		0		
*TX-0710	VICTORIA POWER STATION	12/1/2014	combined cycle turbine	natural gas	197	MW	its existing 1x1x1 configuration to approximately 185 MW in the 2x2x1 configuration. The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired			D			0		0		
	TRINIDAD GENERATING		combined cycle				The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion turbine nominally rated at 497 megawatts (MW) equipped with a HRSG and DB with a maximum design capacity of 402 million British thermal units per hour (MMBtulhs). The gross nominal output of the CTG with HRSG and										
*TX-0712	FACILITY	11/20/2014	turbine	natural gas	497	MW	DB is 530 MW.		-	D			0		0		
*TX-0713	TENASKA BROWNSVILLE GENERATING STATION	4/29/2014	(2) combined cycle turbines	natural gas	274	MW	Each CTG is site-rated at 274 MW gross electric output at G2ÅF ambient temperature. At his condition, two HRSGs with full duct burner fring produce enough steam to generate an additional 336 MW, for a total of 884 MW gross, or with about 5% looses, about 840 MW net electric output. Under summerine conditions, the net output is approximately 800 MW with the 2x1 CCGT configuration or about 400 MW with le 1x1 CCGT configuration. The gas turbines will be one of three options: (1) Two Siemens Model FS (SFS) CTGs each rated at nominal capability of 225 megawatts (MW). Each CTG will have a duct fired HRSG with a maximum heat			0			0		C		
*TX-0714	S R BERTRON ELECTRIC GENERATING STATION	12/19/2014	(2) combined cycle turbines Combined-cycle gas	natural gas	240	MW	input of 688 million British thermal units per hour (MMBtuhr). (2) Two General Electric Model TPA (GEFFA) CTGs each rated at nominal capability of 215 MW. Each CTG will have a duet fired HRSG with a maximum heat input of 523 MMBtuhr. (3) Two Mistabidsi Heavy Industry G Frums (MHS01G) CTGs each rated at a nominal electric output of 263 MW. Each CTG will have a duet fired HRSG with a maximum heat input of 686 MMBtuhr.		(0			0		C		
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/2015	turbine electric		1100	MW	combined cycle power plant that uses two combustion turbines and one steam	.05.:		111.4							
1.7-0/30	CENTER	4/1/2013	Combined Cycle	maturar gas	1100		turbine, model GE 7HA.02 Two power configuration options authorized	efficient combustion, natural gas fuel	4:	, ioriii			1				
	EAGLE MOUNTAIN STEAM		Turbines (>25 MW) – natural				Siemens – 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner										
*TX-0751	ELECTRIC STATION	6/18/2015	gas	natural gas	210	MW	GE – 210 MW + 349.2 MMBtu/hr duct burner Two power configuration options authorized		35.47	7 lb/hr		81.8	8 T/YR		0		
	LON C. HILL POWER		Combined Cycle				Siemens â& 240 MW + 250 million British thermal units per hour (MMBtu/hr)	Good combustion practices and use of									
*TX-0767	STATION C. HILL POWER	10/2/2015	Turbines (>25 MW)	natural gas	195	MW	duct burner GE – 195 MW + 670 MMBtu/hr duct burner	Good combustion practices and use of pipeline quality natural gas	16	6 lb/hr		109	5 TPY		0		
			CYCLE TURBINE								3 HR AVG. (WITHOUT			3 HR. AVG. (WITH DUCT			
VA-0315	WARREN COUNTY POWER PLANT - DOMINION	12/17/2010	& DUCT	Natural Gas	2004	MMBTU/H	Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT) generator, Model M501 GAC).	Natural Gas only, fuel has maximum sulfur content of 0.0003% by weight.		llh.Au	DUCT BURNER FIRING)	.	4 lb-be	BURNER FIRING)			
- A-0313		12/17/2010	COMBUSTION	, saturar Gas	2996	ab i C/II			T '	, ioriii		†		3 H			
*VA-0321	BRUNSWICK COUNTY POWER STATION	3/12/2013	TURBINE GENERATORS, (3)	Natural Gas	3442	MMBTU/H	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners (natural gas-fired). This entry is for both of two identical units at the facility.	Low sulfur/carbon fuel and good combustion practices.	0.0047	7 LB/MMBTU	3 H AVG/WITH DUCT BURNING	9.	7 lb/hr	AVG/WITHOUT DUCT BURNING	16.3	3 H AVG/WITH DUCT BURNING	
	MOUNDSVILLE COMBINED		Combined Cycle				Nominal 197 mW General Electric Frame 7FA.04 Turbine w/ Duct Burner -	Good Combustion Practices, Inlet Air									
*WV-0025	CYCLE POWER PLANT CHEYENNE PRAIRIE	11/21/2014	Turbine/Duct Burner Combined Cycle	Natural Gas	2419.6	mmBtu/Hr	throughput denotes aggregate heat input of turbine and duct burner (HHV).	Filtration, & use of Natural Gas	8.9	9 lb/hr	3-HOUR	0.003	7 LB/MMBTU	CALENDAR	0		
*WY-0070	GENERATING STATION	8/28/2012	Turbine (EP02)	Natural Gas	40	MW		good combustion practices	-	4 lb/hr	AVERAGE	17	5 TONS	YEAR	0		
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas	346	MW		Clean Fuel	13	3 lb/hr	1-hr average; Duct Burners On	0.006	2 lb/MMBtu	1-hr average; Duct Burners On			
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas		MW		Clean Fuel	0.04	l lb/MW-hr	1-hr average; Duct Burners On						
	Kalama Energy Center		Combustion Turbine	Natural Gas		MMBtu/hr			17.1		3-hr average	0.000	8 lb/MMBtu	3-hr average			
									17.1	1 IOVIII		0.006	no incivirsitu	3-nr average			
	Kalama Energy Center		Combustion Turbine	Natural Gas	224	MMBtu/hr			70	0 tpv	12-mo rolling						

	1	PERMIT ISSUANCE		PRIMARY	1	1		CONTROL METHOD	EMISSION	1	AVG TIME	EMISSION	1	AVG TIME	STANDARAD		AVG TIME
RBLCID			PROCESS NAME		THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION		UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
RDLCID	I ACIDIT I WENT	Ditte	TROCESSITEME	I CLL	TIMOCOM CI	TIMOCOM CT C.UT	TROCESS TOTES	DESCRIPTION	121.11111	10.111	COMMITTON	122.011 2	10.111	COMBITTON	LantonontLanti	0.111	CO.IDITIO.I
		1															ĺ
	GenConn Middletown LLC		Combustion Turbine	Natural Gas	474.9	MMBtu/hr			-	6 lb/hr							
	n :so n	1	Block 1 CT	Natural Gas					1	8 lb/hr	30-day rolling						ĺ
	PacifiCorp Energy		Block I CI	Natural Gas					10.3	8 lb/nr	average						
	L										30-day rolling						ĺ
	PacifiCorp Energy		Block 2 CT	Natural Gas	629	MW			1	4 lb/hr	average						
	Pioneer Valley					MW				4 lb/MMBm							ĺ
			Combustion Turbine	Natural Gas	387	MW			0.00-	4 lb/MMBtu							
	Sevier Power Company Power	1	0 1 2 7 11	N. 10	500	MW			l .		30-day rolling						1
_	Plant Woodbridge Energy Center		Combustion Turbine	Natural Gas	580	MW			- 1	4 lb/hr	average						
																	ĺ
	(CPV Shore, LLC)			Natural Gas	2807	MMBtu/hr			19.	l lb/hr	(With DB)						
	Cricket Valley Energy Center	1	Combustion Turbine	N. 10	1000	MW			191.								ĺ
			Combustion Turbine	Natural Gas	1000	MW			191.	1 tpy							⊢—
	Gibson County Generation,		Combustion Turbine	N. 10		MW			20.	9 lb/hr		0.0000	lb/MMBtu				ĺ
_	LLC		Combustion Turbine	Natural Gas	41/	MW			28.	9 lb/nr		0.0088	Ib/MMBtu	24-hr average			
	L												L				ĺ
	Tenaska Partners LLC	-	Combustion Turbine	Natural Gas	3147	MMBtu/hr			11.3	8 lb/hr		0.0039	lb/MMBtu				
	UGI Development Co/ Hunlock									l lb/MMBm							ĺ
	Creek			Natural Gas	471.2	MMBtu/hr			0.014	I Ib/MMBtu							
	Huntington Beach Energy	1		Natural Gas	020	MW (net)											1
-	Project			Natural Gas	939	MW (net)			9.:	5 lb/hr							
	l																ĺ
—	Hess Newark Energy Center	-	Combustion Turbine	Natural Gas	2266	MMBtu/hr		-	13.3	2 lb/hr	-	-		-	-		
	W 1 F G : B1 1 A	6,000,000			2012.0	nam. I	er we did to		1.0	4 lb/hr	average of 3 test						1
	York Energy Center Block 2 Shell Chemical	6/15/2015	,	_	2512.5	MMBtu/hr	firing NG with duct burner		18.4	4 ID/hr	runs						
	Appalachia/Petrochemicals	1									turbines with duct	1					ĺ
	Appaiacina refroenemicals	6/18/2015				MMBtu/hr	each of the combustion turbines with duct burners		0.006	6 lb/MMBtu		1					ĺ
	Complex	6/18/2013	·1	1	664	MMBtu/hr	each of the combustion turbines with duct burners		0.006	6 IB/MMBtu	burners	1	1	1			1

		PERMIT ISSUANCE	I	IPRIMARY		_		invenergy, EEG - Allegheny County Energ	CONTROL METHOD	IEMISSION		AVG TIME	IEMISSION		IAVG TIME	ISTANDARAD		IAVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	Т	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
CT-0161	KILLINGLY ENERGY CENTER	6/30/2017	Natural Gas w/o Duct Firing	Notes Co.	2	nco 1	/MBtu/hr	The condensation for a selection of the	Good Combustion	0.0	044 LB/MMBTU							
C1-0161	CENTER	6/30/2017		Natural Gas		2969 N	AMBtu/hr	Throughput is for turbine only	Good Combustion	0.0	044 LB/MMB1U			0		1	<u>'</u>	+
			Combined-cycle					3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total										
FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	3/9/2016	electric generating unit	Natural gas	31	1096 N	MMBtu/hr per turbine	unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas. Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Use of clean fuels		GR. S/100 SCF 2 GAS	FOR NATURAL GAS	0.00	15 % S IN ULSD	FOR ULSD	1 .	,	
								, , , , , , , , , , , , , , , , , , , ,										
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	2-on-1 combined cycle unit (GE 7HA)	Notuml and	4	1000	/IMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Clean fuels		0			0		Ι ,	J	
112-0303	CENTER	12/4/2017	EUCCT (Combined	// Ivaturar gas	"	1000	AMBIUII		Good combustion practices and the use of	ſ	-			-		<u> </u>	1	
MI-0427	FILED OFFICER ATTION	11/17/2017	cycle CTG with		100		MRTU/H	A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The	pipeline quality natural gas, combustion		066 LB/MMBTU					l .		
MI-042/	FILER CITY STATION	11/1//201/	unfired HRSG)	Natural gas	193	54./ N	AMB I U/H	turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG). Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	inlet air filter.	0.0	066 LB/MMB1U			0	_	+ • • •	1	+
								recovery steam generator (CTGHRSG).										
			FGCTGHRSG					Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H										
			(EUCTGHRSG1					and HRSG duct burners are each rated at 800 MMBTU/H.	Good combustion practices, inlet air						HOURLY; EACH			
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	27.0000	& EUCTGHRSG2)					T 1700	conditioning and the use of pipeline		16 LB/H	HOURLY; EACH UNIT	· .	2.2 LB/H	UNIT W/O DUC' BURNER FIRING			
·M1-0433	CTCLE FOWER FLANI	//10/2018	EUCTORKS02)	Natural gas		- 0		The HRSGs are not capable of operating independently from the CTGs.	quality natural gas.		10 LB/H	UNII	1.	2.2 LB/H	BURNER FIREN	,	1	
			Combined Cycle					2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	GOOD COMBUSTION PRACTICES									
TX-0788	NECHES STATION	3/24/2016	& amp; Cogeneration	n natural gas	-	231 N	AW	(GE) Simple cycle operations limited to 2,500 hr/yr.	AND LOW SULFUR FUEL	19	9.35 LB/H			0		-	-	+
	DECORDOVA STEAM		Combined Cycle					2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	GOOD COMBUSTION PRACTICES									
TX-0789	ELECTRIC STATION	3/8/2016	& amp; Cogeneration	natural gas		231 N	ИW	(GE). Simple cycle operations limited to 2,500 hr/yr.	AND LOW SULFUR FUEL	35	5.47 LB/H			0		-		
	PORT ARTHUR LNG		Refrigeration Compression															
TX-0790	EXPORT TERMINAL	2/17/2016	Turbines	natural gas		10 N	// TONNES/YR	Four GE Frame 7E gas turbines for refrigeration and compression at the site		11	1.07 LB/H		42.	15 T/YR	1	-		
			Simple Cycle Electrical						Equipment specifications & work practices -	1					1			1
	PORT ARTHUR LNG		Generation Gas						Good combustion practices and use of									
TX-0790	EXPORT TERMINAL CHOCOLATE BAYOU	2/17/2016	Turbines 15.210	natural gas		34 N	AW	Nine GE PGT25+G4 gas turbines for electrical generation at the site at 34 MW/turbine	low carbon, low sulfur fuel	1	2.32 LB/H		8.	84 T/YR		-		
	STEAM GENERATING		Combined Cycle	NATURAL														
TX-0817	(CBSG) STATION	2/17/2017	Cogeneration	GAS		50 N	ΔW	2 UNITS EACH 50 MW GE LM6000		(5.98 LB/H			0		1		
*TX-0834	MONTGOMERY COUNTY POWER STATIOIN			NATURAL	2	635 x	MBTU/HR/UNIT	Two Mitsubishi M501GAC turbines (without fast start)	PIPELINE NATURAL GAS, GOOD COMBUSTION	12	25.7 TON/YR			0		1 .		
1.7.70.74	TOTAL STATION	3/30/2018	Turbine COMBUSTION	0.70	- 21	N CCC	man round out	a no microsom mesor esser (unione last state)	COMPOSIBLE	1.	LOW IN			-		1 '		+
			TURBINE GENERATOR															
			WITH DUCT-															
			FIRED HEAT															
	GREENSVILLE POWER		RECOVERY STEAM									AVG OF 3 TEST						
*VA-0325	STATION STATION	6/17/2016	GENERATORS (3)	natural eas	3:	1227 N	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	Pipeline Quality Natural Gas	0.0	039 LB/MMBTU	RUNS	14	4.1 LB/H		1	,	
			COMBUSTION															
			TURBINE #2 (NORMAL									12-MONTH ROLLING AVG						
	VICTORVILLE 2 HYBRID		OPERATION, NO	NATURAL								(NO DUCT						
CA-1191	POWER PROJECT	3/11/2010	DUCT BURNING) COMBUSTION	GAS		154 N	ИW	154 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS		12 lb/hr	BURNING)		0		-		
			TURBINE #1									12-MONTH						
			(NORMAL									ROLLING AVG						
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	2/11/2016	OPERATION, NO DUCT BURNING)	Natural Gas		154 N	OV.	154 MW Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS		12 15 4	(NO DUCT BURNING)				l ,		
CA-1191	POWER PROJECT	3/11/2010	COMBUSTION	Naturai Gas		134 N	/IW	134 M W Combined Cycle Combustion Turbine Generator	PUC QUALITY NATURAL GAS		12 lit/mr	BURNING)		0		1	1	
			TURBINE #1															
			(NORMAL OPERATION, NO	NATURAL.								12-MONTH						
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	DUCT BURNING)	GAS		180 N	ИW		USE PUC QUALITY NATURAL GAS	8	3.91 lb/hr	ROLLING AVG		0				
									USE PIPELINE QUALITY NATURAL.									
			COMBUSTION						GAS, OPERATE DUCT BURNERS NO			6-HR ROLLING			6-HR ROLLING			
	MORRO BAY POWER		TURBINE	NATURAL					MORE THAN 4000 HRS PER YEAR			AVG (NO DUCT			AVG (W/ DUCT	l .		
CA-1198	PLANT	9/25/2008	GENERATOR	UAS		180 N	aw.	TWO NATURAL GAS-FIRED COMBUSTION TURBINE-GENERATORS (CTGS) RATED	(12-MONTH ROLLING AVG BASIS)		11 lb/hr	BURNING)	1	3.3 lb/hr	BURNING)	+ '	1	+
			COMBUSTION					AT 154 MEGAWATT (MW, GROSS) EACH, TWO HEAT RECOVERY STEAM		1					1			
	PALMDALE HYBRID		TURBINES (NORMAL	NATURAL				GENERATORS (HRSG), ONE STEAM TURBINE GENERATOR (STG) RATED AT 267 MW, AND 251 ACRES OF PARABOLIC SOLAR-THERMAL COLLECTORS WITH				9-HR AVG (NO			9-HR AVG (W/			
CA-1212	POWER PROJECT	10/18/2011	OPERATION)	GAS		154 N	4W	ASSOCIATED HEAT-TRANSFER EQUIPMENT	USE PUC QUALITY NATURAL GAS	0.0	048 LB/MMBTU	DUCT BURNING	0.00	49 LB/MMBTU	DUCT BURNING	<u> </u>		
	DUEDLO AIDPORT		Four combined			T						AVE OVER						
*CO-0073	PUEBLO AIRPORT GENERATING STATION	7/22/2010	cycle combution turbines	natural gas		373 1	nmbtu/hr	Three GE, LMS6000 PF, natural gas-fired, combined cycle CTG, rated at 373 MMBtu per hour each, based on HHV and one (1) HRSG each with no Duct Burners	Use of pipeline quality natural gas and good combustor design	1	4.3 lb/hr	STACK TEST LENGTH		0	1	1	,	1
												12 MONTH						1
DE-0024	GARRISON ENERGY CENTER	1/30/2013	Linit 1	Natural Gas		260	nillion BTUs		Fuel Usage Restriction to natural gas and low sulfur distillate oil	1.5	20.4 TONS	ROLLING		۵	1	1 .	,	1
152-0024		1/30/2013	Omt I	ivaturai Gas	1	200111	mmon D1Us		IOW SUITUF DISTINATE OIL	1.	LO.4: TONS	AVERAGE AVG. OF 3 ONE	1	0		1 '	1	+
I	MARSHALLTOWN	I	Combustion turbine	Ι.				two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258		1		HOUR TEST			12-MONTH			1
*IA-0107	GENERATING STATION	4/14/2014	#1 - combined cycle	natural gas	22	258 m	nmBtu/hr	mmBtu/hr generating approx. 300 MW each.		-	0.01 LB/MMBTU	RUNS AVERAGE OF 3	7	7.1 TON/YR	ROLLING 12-MONTH	+ '	1	+
	MARSHALLTOWN		Combustion turbine							1		ONE-HOUR TES	Т		ROLLING			1
*IA-0107	GENERATING STATION	4/14/2014	#2 -combined cycle	natural gas	2	258 n	nmBtu/hr		WHILE FIRING NATURAL GAS: USE	-	0.01 LB/MMBTU	RUNS	7	7.1 TON/YR	TOTAL	1	-	+
									OF PIPELINE QUALITY NATURAL									
									GAS AND GOOD COMBUSTION PRACTICES	1					1			
			COMBINED						PRACTICES									
			CYCLE TURBINE					TURBINES ALSO PERMITTED TO BURN NO. 2 FUEL OIL AND ULTRA LOW SULFUR	WHILE FIRING FUEL OIL: USE OF									1
	NINEMILE POINT FLECTRIC GENERATING		GENERATORS	NATURAL.				DIESEL.	ULTRA LOW SULFUR FUEL OIL AND GOOD COMBUSTION			HOURLY AVERAGE W/O			HOURLY AVERAGE W/			
LA-0254	ELECTRIC GENERATING PLANT	8/16/2011	(UNITS 6A & amp; 6B)	GAS	7	7146	MMBTU/H	FUEL OIL USE IS LIMITED TO 1000 HOURS PER YEAR.	AND GOOD COMBUSTION PRACTICES	2/	5.23 lb/hr	AVERAGE W/O DUCT BURNER	33.	16 lb/hr	AVERAGE W/ DUCT BURNER	1 .		
	1	3.102011	Combined Cycle		1			The second secon				JOET BORNER	- 55.		DOCT BOILDER	1		
	SABINE PASS LNG		Refrigeration						Good combustion practices and fueled by	.1		HOURLY			1			1
LA-0257	TERMINAL	12/6/2011	Compressor Turbines (8)	natural gas		286 N	MMBTU/H	GE LM2500+G4	natural gas		2.08 lb/hr	MAXIMUM		0		1 .		
		12.02011	COGENERATION					EACH COGEN TRAIN CONSISTS OF A 50 MW GE LM6000 PF SPRINT TURBINE AND	USE OF NATURAL GAS AS FUEL									
LA-0256	COGENERATION PLANT	12/6/2011	TRAINS 1-3 (1-10, 2-10, 3-10)	NATURAL		475	MBTU/H	A HEAT RECOVERY STEAM GENERATOR EQUIPPED WITH A 70 MM BTU/HR DUCT BURNER.	AND GOOD COMBUSTION PRACTICES		3 72 llb/br	HOURLY MAXIMUM		0		1 .		
	POODENERATION FLANT	12/6/2011	2-10, 3-10)	Juva	1 .	4/3 N	IIVID I U/П	DOCT BOKNER.	I KACI KES	1	2.72 10/Hr	IMANIMUM	1	VI			4	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	DROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	LINET	AVG TIME CONDITION
KRTCID	FACILITY NAME	DATE	2 COMBINED	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	JUNIT	CONDITION
			CYCLE														
			COMBUSTION TURBINES					EXCLUSIVE USE OF PIPELINE			AVERAGE OF 3						
	WILDCAT POINT		WITHOUT DUCT	NATURAL				QUALITY NATURAL GAS AND			STACK TEST						
'MD-0042	GENERATION FACILITY	4/8/2014	FIRING	GAS	270	MW		EFFICIENT TURBINE DESIGN	25.1	lb/hr	RUNS)		0		
			Combined cycle				This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator (HRSG).										
			combustion turbine														
*MI-0402	SUMPTER POWER PLANT	11/17/2011	w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG		0.0066	LB/MMBTU	TEST	7.4	1 lb/hr	TEST	- 0		
			Natural gas fueled combined cycle				Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam				EACH CTG:						
			combustion turbine				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected				TEST			EACH CTG;			
	MIDLAND COGENERATION	1	generators (CTG)				to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and a				PROTOCOL (PM			TEST			
*MI-0405	VENTURE	4/23/2013	with HRSG TURBINE	Natural gas	2237	MMBTU/H	selective catalytic reduction (SCR) system.	Good combustion practices USE OF CLEAN FUELS, NATURAL	0.006	LB/MMBTU	only)	0.012	LB/MMBTU	PROTOCOL	- 0	1	_
			COMBINED	NATURAL				GAS AND ULTRA LOW SULFUR									
NJ-0074	WEST DEPTFORD ENERGY	5/6/2009	CYCLE	GAS	17298	MMFT3/YR	Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	DISTILLATE OIL	18.66	lb/hr)	-	- 0		-
							These limits are for each of the 4 turbines individually, while operating with the duct burners				12-MONTH						
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Turbine, Combined		2044	MMBtu/hr	on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct		48 56	TDI	ROLLING TOTAL						
*PA-0296	ASSOC LLC/ONTELAUNEE	12/1//2013	Cycle, #1 and #2	Natural Gas	3046	MMBtwhr	The plant will be designed to generate 1,350 nominal megawatts of power. There are two		48.30	IPY	IOIAL	10) Ib/hr		-	1	
			1				configuration scenarios: either four Siemens SGT6-5000F CTGs in combined-cycle mode	use low ash fuel (natural gas or low sulfur diesel as a backup) and good combustion			1						
TX-0590	KING POWER STATION	8/5/2010	Turbine	natural gas	1257	MW	(Scenario A) or four GE Frame 7FA CTGs in combined cycle mode (Scenario B). Scenario B	diesel as a backup) and good combustion practices	111	lb/hr	1	193	lb/hr			1	
	GIONERSIATION	8/3/2010	- Jaconic	каз	1330		also includes one or two auxiliary boilers. (2) GE7FA at 195 MW each,					19.0			1		
	THOMAS C. FERGUSON		Natural ac- f 3				(1) steam turbine at 200 MW. Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which				1						
TX-0600	POWER PLANT	9/1/2011	Natural gas-fired turbines	natural gas	390	MW	reach turbine is equipped with an unfired near recovery steam generator (FRSG), which provides steam for the steam turbine.	pipeline quality natural gas	33.43	lb/hr	1-H)	1	0		
							The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a										
							The three combustion turbine generators (CTG) will be the General Electric 7FA, each with a maximum base-load electric power output of approximately 195 megawatts (MW). The steam										
			Combined cycle gas				turbine is rated at approximately 235 MW. This project also includes the installation of two				1						
TX-0620	ES JOSLIN POWER PLANT FGE TEXAS POWER I AND	9/12/2012	turbine	natural gas	195	MW	emergency generators, one fire water pump, and auxiliary equipment. No duct burners. Four (4) Alstom GT24 CTGs, each with a HRSG and DBs, max design capacity 409	Low sulfur fuel, good combustion	18	lb/hr	PER TURBINE)	+	- 0	-	1
*TX-0660	FGE TEXAS POWER IAND	3/24/2014	Alstom Turbine	Natural Gas	230.7	MW	MMBtu/hr	practices	2	PPMVD)		0		
	EDEEDODE 1 · · ·																
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY	7/16/2014	Combustion Turbine	natural gas	87	MW	The exhaust heat from the turbine will be used to heat a heating medium which is used to regenerate rich amine from the acid gas removal system.		15.22	llh/hr		١ ,	,				
174-0070		77102014		natara gas			regenerate Hell annue nom the deta gas removal system.		13.22	1011		,	1				
*TX-0689	CEDAR BAYOU ELECTRIC GENERATION STATION	8/29/2014	Combined cycle natural gas turbines	Natural Gas	226	MW		Cool cool cool					,				
· 1.A-0089	GENERATION STATION		(4) cogeneration	Naturai Gas	223	WW		Good combustion practices, natural gas	,			· '	,		1		
*TX-0698	BAYPORT COMPLEX	9/5/2013	turbines Natural gas-fired	natural gas	90	MW	(4) GE 7EA turbines providing power and process steam		()		0		
	SAND HILL ENERGY		combined cycle														
*TX-0709	CENTER	9/13/2013	turbines	Natural Gas	173.5	MW			()		0		
							The facility will consist of a Mitsubishi Heavy Industries (MHI) J model gas fired combustion turbine nominally rated at 497 megawatts (MW) equipped with a HRSG and DB with a										
	TRINIDAD GENERATING		combined cycle				maximum design capacity of 402 million British thermal units per hour (MMBtu/hr). The										
*TX-0712	FACILITY	11/20/2014	turbine	natural gas	497	MW	gross nominal output of the CTG with HRSG and DB is 530 MW.		()		0		
	COLORADO BEND ENERGY	,	Combined-cycle gas turbine electric				combined cycle power plant that uses two combustion turbines and one steam turbine, model										
*TX-0730	CENTER	4/1/2015	generating facility COMBINED	natural gas	1100	MW	GE 7HA.02	efficient combustion, natural gas fuel	43	lb/hr)		0		
			CYCLE TURBINE								3 HR AVG. (WITHOUT			3 HR. AVG. (WITH DUCT			
	WARREN COUNTY POWER		& DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Natural Gas only, fuel has maximum			DUCT BURNER			BURNER			
VA-0315	PLANT - DOMINION GATEWAY	12/17/2010	BURNER, 3	Natural Gas	2996	MMBTU/H	generator, Model M501 GAC).	sulfur content of 0.0003% by weight.	8	lb/hr	FIRING)	14	lb/hr	FIRING)	0		
	COGENERATION 1, LLC -		COMBUSTION				Burns primarily natural gas but has the capacity to burn up to 500 hours of ultra low sulfur	Clean burning fuels and good combustion									
VA-0319	SMART WATER PROJECT	8/27/2012	TURBINES, (2) COMBUSTION	Natural Gas	593	MMBTU/H	diesel fuel (ULSD) as backup.	practices.		lb/hr	3 H AVG)		0		
	BRUNSWICK COUNTY		TURBINE				Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners	Low sulfur/carbon fuel and good			3 H AVG/WITHOUT			AVG/WITHOUT			
*VA-0321	POWER STATION	3/12/2013	GENERATORS, (3)	Natural Gas	3442	MMBTU/H	(natural gas-fired).	combustion practices.	0.0033	LB/MMBTU	DUCT BURNING	9.1	7 lb/hr	DUCT BURNING	3 0		
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	8/28/2012	Combined Cycle Turbine (EP02)	Natural Gas	Af	MW		good combustion practices		llb/br	3-HOUR AVERAGE	17.	TONS	CALENDAR YEAR		_	
1-0070	Footprint Power Salem Harbor	6/28/2012								noral	1-hr average; Duct			1-hr average; Due	et l		
	Development LP		Combustion Turbine	Natural Gas	346	MW		Clean Fuel	8.8	lb/hr	Burners Off	0.007	l lb/MMBtu	Burners Off			
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas	346	MW		Clean Fuel	0.041	lb/MW-hr	1-hr average; Duct Burners Off						
				Natural Gas						lb/hr	30-day rolling						
	PacifiCorp Energy	1	Block 1 CT	Natural Gas	1	-			10.8	Ib/hr	average 30-day rolling			1	+		1
	PacifiCorp Energy		Block 2 CT	Natural Gas	629	MW			14	lb/hr	average			1			
	Pioneer Valley		Combustion Turbine	Natural Gas	200	MW			0.00	lb/MMBtu							
	Woodbridge Energy Center		Compussion Turbine								+			1	1		
	(CPV Shore, LLC)			Natural Gas	2,307	MMBtu/hr			12.1	lb/hr	1						
	Hummel Station LLC		Combustion Turbine	Natural Gas	2 254 00	MMBtu/hr			12	lb/hr	1						
		1	_ Juneau ou Turoline		2,234.00			Combusting commercially available,	17		1						
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW		pipeline natural gas in the turbines and duct burners	0.000	lb/MMBtu	1-hr average			1			
	Gibson County Generation.							duct ouners					 				1
	LLC	1	Combustion Turbine	Natural Gas	417	MW			0.0088	lb/MMBtu	24-hr average						1
	Pioneer Valley Energy Center		Combustion Turbine	Natural Gas	2542	MMBtu/hr			0.004	lb/MMBtu	1	9,	lb/hr	1			
	Russell City Energy Company,										1	7.0		1	1		
	LLC	1	Combustion Turbine	Natural Gas	2038.6	MMBtu/hr			7.5	lb/hr	+	0.0036	lb/MMBtu	+	+		1
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	3147	MMBtu/hr			11.8	lb/hr	1	0.0039	lb/MMBtu	1			
	UGI Development Co/ Hunlock	:															
	Creek Huntington Beach Energy			Natural Gas	471.2	MMBtu/hr			0.0141	lb/MMBtu	+		1	+	+		+
	Project Project			Natural Gas	939	MW (net)			4.5	lb/hr							
	Hess Newark Energy Center		Combustion Turbine	Natural Gas	2220	MMBtu/hr				lb/hr							
		1	Compussion Turbine	preatural Gas	2320	INIMIDIUM			11	10/HF	average of 3 test		-	+	+		
	York Energy Center Block 2	6/15/2015				MMBtu/hr	firing NG without duct burner			lb/hr							

DDI CIP	EACH ITV NAME	PERMIT ISSUANCE	BDOCECC NAME	PRIMARY	THEOLIGIPATE	THEOLOGYPUT	BROCESS NOTES	CONTROL METHOD	EMISSION	LINIT	AVG TIME	EMISSION	UNIT	AVG TIME	STANDARAD	UNIT	AVG TIME
BLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	GENERATING CAPACITY: EACH OF THE FOUR GAS TURBINES HAS A NOMINAL	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							GENERATING CAPACITY OF 170 MW FOR GAS FIRING (180 MW FOR OIL FIRING). EACH OF THE FOUR HEAT RECOVERY STEAM GENERATORS (HRSOS) PROVIDES STEAM TO THE SINGLE STEAM TURBINE ELECTRICAL GENERATOR, WHICH HAS A NOMINAL CAPACITY OF 470 MW. THE TOTAL NOMINAL GENERATING										
							CAPACITY OF THE 4-ON-1 COMBINED CYCLE UNIT IS 1150 MW. FUELS: EACH GAS TURBINE WILL FIRE NATURAL GAS AS THE PRIMARY FUEL AND ULTRA LOW SULFUR (0.00) 5% SULFUR) DISTILLATE OIL AS A RESTRICTED										
			170 MW				ALTERNATE FUEL. EMISSIONS OF ALL POLLUTANTS INCREASE WITH THE FIRING OF OIL. THE APPLICANT REQUESTS 500 HOURS PER YEAR PER GAS TURBINE (OR EQUIVALENT) FOR OIL FIRING.	EMISSIONS OF SAM AND SO2 WILL BE MINIMIZED BY FIRING									
L-0263	FPL TURKEY POINT POWER PLANT	2/8/200	COMBUSTION TURBINE, 4 5 UNITS COMBINED	NATURAL GAS	170	MW	MODES OF OPERATION: STANDARD NORMAL OPERATION, WITH DUCT BURNER, POWER AUGMENTATION AND PEAKING.	NATURAL GAS AND RESTRICTING THE AMOUNTS OF ULTRA LOW SULFUR DISTILLATE OIL.	2	GR S/100 SCF GAS		0.001:	5 % S			0	NOT AVAILABLE
FL-0285	PROGRESS BARTOW POWER PLANT	1/26/200	CYCLE COMBUSTION TURBINE 7 SYSTEM (4-ON-1)	NATURAL GAS	1973	MMBTU/H	1876 MMBTU/HR WHEN FIRING DISTILLATE FUEL OIL. THE SYSTEM NOMINAL CAPACITY 1280 MW. EACH UNIT NOMINAL CAPACITY 215 MW (ISO) WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATOR. 2117 MMBU/HR FUEL OIL.			GR S/100 SCF	NATURAL GAS	0.0	5 % 5	FUEL OIL BY WEIGHT			
L-0283	TOWERTEANT	1/20/200	/ STSTEM (4-O/V-1)	UAS	1972	WWB10/II				UAS	NATURAL GAS	0.0.	7/43	WEIGHT			
			COMBINED CYCLE COMBUSTION				EACH COMBINED CYCLE UNIT SYSTEM (TWO & disque, disque). A ON-16d sque, disque). WILL CONSIST OF: THERE NOMINAL 200 MEGAWATT MODEL 5016 (EAST THORE). THE COLING SYSTEMS, THREE SUPPLEMENTARY-FIRED HEAT RECOVERY STEAM GENERATORS, GINE MOMINAL 428 (MMSTU-HOUZE, LIHY) CAS-FIRED DUCT BURNER LOCATED WITHIN EACH OF THE THREE HERGÂS, THREE 14 FREE ET ENHAUST STACKS, ONE YE OF LEICH THE HERGÂS, THREE 14 FREE ET ENHAUST STACKS, ONE 26 CELL THE CONTROL THE THREE HERGÂS, THREE 14 FREE ET ENHAUST STACKS, ONE 26 CELL THE										
FL-0286	FPL WEST COUNTY ENERGY CENTER	1/10/200		NATURAL GAS	2333	MMBTU/H	MECHANICAL DRAFT COOLING TOWER; AND A COMMON NOMINAL 500 MW STEAM-ELECTRICAL GENERATOR.	LOW SULFUR FUELS	2	GR S/100 SCF GAS		0.001:	5 % S			0	
*IL-0112	NELSON ENERGY CENTER	12/28/201	Electric Generation Facility	Natural Gas		MW each	Two combined cycle combustion turbines followed by HRSGs with capability for supplemental fuel firing in HRSG for each combustion turbine using duct burners. EACH TURBINE IS EQUIPED WITH DBY LOW NOX BURNERS, NATURAL GAS		0.0062	LB/MMBTU	HOURLY AVERAGE		0			0	
	ST. JOSEPH ENEGRY		FOUR (4) NATURAL GAS COMBINED CYCLE COMBUSTION	NATURAL			EACH TURBNE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR BENTIFIED AS HRSGIR. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALLYTIK REDUCTION SYSTEMS (SCRIPI) ALONG WITH CO AND VOC EMISSIONS CONTROLLED BY OXIDATION CATAYLIST SYSTEMS (CATHRI IN EACH TURBNE). EACH STROKE HAS CONTRIOUSE BUSSIONS ONTROLLED BY OXIDATION CATAYLIST SYSTEMS (CATHRI IN EACH TURBNE). EACH STROKE HAS CONTRIOUSE MISSIONS MONTORS FOR			GR S/100 SCF							
*IN-0158	CENTER, LLC	12/3/201	2 TURBINES	GAS	2300	MMBTU/H	NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	FUEL SPECIFICATION	0.75	GAS			0			0	
LA-0136	PLAQUEMINE COGENERATION FACILITY	7/23/200	(4) GAS TURBINES/DUCT 8 BURNERS TWO COMBINED	NATURAL GAS	2876	MMBTU/H	VISUAL INSPECTION FOR OPACITY ON A WEEKLY BASIS, STACK TESTS FOR PM, NOX, SO2, OPACITY, CO EMISSION POINTS GT-500, -600, -700, -800.	LOW SULFUR FUELS WITH MAXIMUM SULFUR CONTENT OF 5 GR/100 SCF.	40.7	lb/hr	HOURLY MAXIMUM	53.	7 T/YR	ANNUAL MAXIMUM	3.	PPMVD @ 15% O2	ANNUAL AVERAGE
LA-0224	ARSENAL HILL POWER PLANT	3/20/200	CYCLE GAS TURBINES	NATURAL GAS	2110	MMBTU/H	CTG-1 TURBINE/DUCT BURNER (EQT012) CTG-2 TURBINE/DUCT BURNER(EQT013)	USE LOW-SULFUR PIPELINE- QUALITY NATURAL GAS AS FUEL	12.06	lb/hr	MAX		0			0	
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/201-	Combustion Turbine 4 with Duct Burner	Natural Gas	2449	MMBtu/hr	two 315 MW (nominal) GE Energy 7F Series 5 Rapid Response Combined Cycle Combustion Turbines with Duct Burners and 31 MW (estimated) steam turbine generators		0.3	PPMVD	1 HR AVG, DOES NOT APPLY DURING SS	0.001	5 LB/MMBTU	I HR AVG, DOE NOT APPLY DURING SS	S	0	
	WILDCAT POINT		2 COMBINED CYCLE COMBUSTION TURBINES, WITH				TWO MITSUBISHI &Isquo &Isquo &Isquo Model COMBUSTION TURBINE GENERATORS (CTS) WITH A NOMINAL GENERATING CAPACITY OF 270 MW CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS,	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND			3-HOUR BLOCK						
*MD-0042	GENERATION FACILITY	4/8/201	4 DUCT FIRING COMBINED CYCLE	GAS	1000	MW	SELECTIVE CATALYTIC REDUCTION (SCR), OXIDATION CATALYST Natural Gas Usage <= 33,691 MMft^3/yr	EFFICIENT TURBINE DESIGN	8.2	lb/hr	AVERAGE	· ·	0			0	
	PSEG FOSSIL LLC SEWAREN GENERATING		COMBUSTION TURBINE WITH DUCT BURNER -			MMCUBIC FT PER	per 365 consecutive day period, rolling one day basis (per two Siemens turbines and two associated duct burners) The heat input rate of the Siemens turbine will be 2,356 MMBtu/ht(HHV) with a 62.1 duct				AVERAGE OF THREE ONE						
*NJ-0081	STATION	3/7/201	4 SIEMENS COMBINED CYCLE	Natural Gas	33691	YEAR	burner MMBtu/hr(HHV). Natural Gas Usage <= 33,691 MMft^3/yr	Use of natural gas a clean burning fuel	5.1	lb/hr	HOUR TESTS	· '	0			0	
	PSEG FOSSIL LLC		COMBUSTION TURBINE WITH DUCT BURNER -				Natural Usas Cosage (~ 53,091 Monte: Siyr per 365 consecutive day period, rolling one day basis (per two turbines and two duct burners)				AVERAGE OF						
*NJ-0081	SEWAREN GENERATING STATION	3/7/201-	GENERAL 4 ELECTRIC	Natural gas	33691	MMCUF/year.	The heat input rate of each General Electric combustion each turbine will be 2,312 MMBtu/hr(HHV) with a 164.4 MMBtu/hr duct burner	Use of natural gas only as a clean burning fuel	g 5.2	lb/hr	THREE ONE HOUR TESTS		0			0	
	WEST DEPTFORD ENERGY		Combined Cycle Combustion Turbine				This is a 427 MW Siemens Combined Cycle Turbine with duct burner Heat Input rate of the turbine = 2276 MMbtu/hr (HHV) Heat Input rate of the Duct burner=777 MMbtu/hr(HHV)				AVERAGE OF THREE ONE						
*NJ-0082	STATION CAITHNES BELLPORT	7/18/201-	4 with Duct Burner	Natural Gas NATURAL	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners.	Use of natural gas a clean burning fuel	6.56	lb/hr	HOUR TESTS		0			0	
NY-0095	ENERGY CENTER	5/10/200	6 TURBINE	GAS	2221	MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H Two Siemens 2932 MMBtu/H combined cycle combustion turbines , both with 300 MMBtu/H	LOW SULFUR FUEL	0.0011	LB/MMBTU		-	0		-	0	
	OREGON CLEAN ENERGY		2 Combined Cycle Combustion Turbines-Siemens,			larger w	duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.	low sulfur fuel, only burning natural gas		LDAMET!			Tara	PER ROLLING 1	2-		
*OH-0352	CENTER	6/18/201	with duct burners	Natural Gas	51560	MMSCF/rolling 12-MO	This process with duet burners. There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steum generators (HRSG) identified as EUCTGHRSGI & EUCTGHRSG2 in the flexible goup FGCTGHRSG. The total hours for startup and shatdown for each train shall not exceed 500 hours per 12-month folling time period.	with 0.5 GR/100 SCF	0.0014	LB/MMBTU		34.:	2 T/YR	MONTHS			
MI-0423	INDECK NILES, LLC	01/04/2017 ACT	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	Natural gas	8322	MMBTU/H	The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.	Good Combustion Practices and the use of pipeline quality natural gas.	11.5	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME	0.0	6 LB/MMBTU	TEST PROTOCOL WILL SPECIFY AVG TIME		D	
			FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery				Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG) trains. Each CT is a natural gas fired Misubishi model 501G, equipped with dry low NOx	Use of clean fuel (natural gas) with a fuel			NAT GAS			HOURLY: EACH			
*MI-0432	NEW COVERT GENERATING FACILITY	07/30/2018 ACT	steam generator trains)	Natural gas	1230	MW	combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fired duct burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	sulfur limit of 0.8 grains per 100 standard cubic feet of natural gas.	d	GR/100 SCF	BURNED IN FG- TURB/DB1-3	0.0	6 LB/MMBTU	CT/HRSG TRAIN	ų;	0	$oxed{oxed}$

RRI CID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	p BROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KDLCID	FACILITY NAME	DATE	EUCTGHRSG	FUEL	InkouGhrui	THROUGHFUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT I	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	JAH	CONDITION
			(South Plant): A				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery										1
			combined cycle	1			steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a										1
			natural gas-fired	1			nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080										1
			combustion turbine generator with heat	1			MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The										1
	MEC NORTH, LLC AND		recovery steam	1			HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped	Good combustion proctices and the use of						FUEL SUPPLIER			1
*MI-0433	MEC SOUTH LLC	06/29/2018 ACT	generator.	Natural gas	500	MW	with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	pipeline quality natural gas.	6.6	LB/H	HOURLY	0.	.6 GR S/100 SCF	RECORDS	0		1
							Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and										
			EUCTGHRSG	1			HRSG duct burner rating of 755 MMBTU/hr (HHV).										1
			(North Plant): A	1			A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery										1
			combined-cycle	1			steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a										1
			natural gas-fired	1			nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080										1
			combustion turbine	1			MMBTU/hr (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755										1
	I		generator with heat	1			MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The							FUEL SUPPLIER			1
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	06/29/2018 ACT	recovery steam	Natural gas	500	MW	HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Good combustion practices and the use of pipeline quality natural gas.	6.6	LB/H	HOURLY		.6 GR S/100 SCF	RECORDS			1
·M1-0433	MEC SOUTH LLC	06/29/2018 & BSD;AC1	COMBUSTION	Naturai gas	300	J MW	with dry low NOX burner (DENB), SCR, and an oxidation catalyst.	pipenne quanty naturai gas.	0.0	LB/II	HOURL1	0.	.0 CR 5/100 SCF	RECORDS	0		$\overline{}$
			TURBINE	1													1
			GENERATOR	1													1
			WITH DUCT- FIRED HEAT	1							DURING NORMAL						1
			RECOVERY	1							OPERATION						1
	GREENSVILLE POWER		STEAM	1							INCLUDING						1
*VA-0325	STATION	06/17/2016 ACT	GENERATORS (3)	natural gas	322	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	Low Sulfur fuel	0.0011	LB/MMBTU	SU/SD	18.	.7 T/YR	PER TURBINE	0		1
				T			Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	Ĭ				1					
			Turbines (4) (model				These limits are for each of the 4 turbines individually, while operating with the duct burners	Burning natural gas in an efficient									1
	DUKE ENERGY HANGING		GE 7FA) Duct	NATURAL			on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	combustion turbine burning low sulfur				l .		PER ROLLING 1	2		1
*OH-0356	ROCK ENERGY	12/18/201	2 Burners On COMBUSTION	GAS	17:	2 MW	burners.	fuel	1.52	lb/hr		6.	.7 T/YR	MONTHS	0		
			TURBINE & amp;				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.										1
			HEAT RECOVERY	-			These limits are for each of the 4 turbines individually, while operating with the duct burners				SEE						1
			STEAM	NATURAL			on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct				POLLUTANT						1
OR-0041	WANAPA ENERGY CENTER	8/8/200	5 GENERATOR	GAS	2384.	MMBTU/H	burners.		0		NOTE		0		0		
							L										1
			Combined-cycle				Two combine cycle Turbines, each with a combustion turbine and heat recovery steam generator with duct burner. Each combined-cycle process will be rated at 468 MW or less.	The owner/operator will be using low									1
	MOXIE LIBERTY		Turbines (2) -				The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the	sulfur fuel with a sulfur content of 0.4						468 MW			1
PA-0278	LLC/ASYLUM POWER PL T	10/10/201	2 Natural gas fired	Natural Gas	327	MMBTU/H		grains per 100 sef.	0.0011	LB/MMBTU		3	5 lb/hr	POWERBLOCK	0		1
							GREEN POWER ONE WILL CONSIST OF TWO NOMINALLY RATED 35 MW GAS FIRED TURBINES AND TWO HEAT RECOVERY STEAM GENERATORS, EQUIPPED										1
							WITH 312 MMBTU/HR DUCT BURNERS. THE COMBUSTION TURBINES WILL										1
							ONLY BURN PIPELINE OUALITY SWEET NATURAL GAS. THE DUCT BURNERS	THE TURBINES WILL FIRE									1
							WILL BURN NATURAL GAS, COMPLEX GAS OR MIXTURES OF NATURAL GAS	NATURAL GAS AND THE DUCT									1
							AND COMPLEX GAS. STEAM PRODUCED IN THE HRSGS WILL BE USED IN THE	BURNERS WILL FIRE NATURAL									1
							CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX	GAS AND COMPLEX GAS WITH A									1
			COGENERATION				WILL CONSUME APPROXIMATELY HALF OF THE ELECTRICAL OUTPUT	SULFUR CONTENT LESS THAN FIVE									1
			TRAIN 2 AND 3				PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE	GRAINS PER 100 STANDARD CUBIC									1
	INEOS CHOCOLATE		(TURBINE AND DUCT BURNER	NATURAL			COMBUSTION TURBINES WILL BE SOLD TO THE GRID.	FEET ON AN HOURLY BASIS. THE NATURAL GAS AND COMPLEX GAS									1
TX-0497	BAYOU FACILITY	8/29/200	6 EMISSIONS)	GAS	3	MW	THE EMISSIONS ARE PER TRAIN.	WILL	12.66	lb/br		10.0	6 T/YR				1
176 0477	D.T. GO T.T.C.E.T.	0/2//200	WESTINGHOUSE/	G. LD			THE EMBOOTO FILE FIGURE	WILL	12.00	10111		10.0	I I I I		· ·		
			SIEMENS MODEL					STEAG POWER LLC REPRESENTS									1
			SW501F GAS					THE FIRING OF PIPELINE NATURAL									1
	NACOGDOCHES POWER		TURBINE W/ 416.5					GAS IN THE COMBUSTION									1
TX-0502	STERNE GENERATING FACILITY	6/5/200	MMBTU DUCT 6 BURNERS	NATURAL	100	MW		TURBINES AND DUCT FIRED HRSGS AS BACT FOR SO2.	7.1	lb/hr		10	8 T/YR				1
		0/3/200	Combined Cycle	2710	199				/.1		1	19.			1		
			Turbines (>25	1			Two power configuration options authorized	1		1		1					1
	EAGLE MOUNTAIN STEAM		MW) – natural	1			Siemens â€" 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner	1		1		1					1
*TX-0751	ELECTRIC STATION	6/18/201	5 gas COMBINED	natural gas	210	MW	GE – 210 MW + 349.2 MMBtu/hr duct burner	+	40.66	lb/hr	+	35.6	2 T/YR		- 0		
			CYCLE TURBINE	1				1		1		1					1
	WARREN COUNTY POWER		&: DUCT	1			Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)	Natural Gas only, fuel has maximum		1		1					1
VA-0315	PLANT - DOMINION	12/17/201	0 BURNER, 3	Natural Gas	299	MMBTU/H	generator, Model M501 GAC).	sulfur content of 0.0003% by weight.	0.98	lb/hr	3 HR AVG.	0.000	3 LB/MMBTU	3 HR. AVG.	0		
	1		COMBUSTION	1	1												1
	BRUNSWICK COUNTY	l .	TURBINE	l		.l	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners	L		l		1	.1				1
*VA-0321	POWER STATION	3/12/201	GENERATORS, (3)	Natural Gas	344	MMBTU/H	(natural gas-fired).	Low sulfur fuel	0.0011	LB/MMBTU	+	+	0	+	0		
			COMBUSTION	1				1		1		1					1
			TURBINE & amp;	1				1		1		1					1
			HEAT RECOVERY	1			THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL	1		1							*SEE NOTES -
	BP CHERRY POINT		STEAM	NATURAL			AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER	LIMIT FUEL TYPE TO NATURAL		1							NOT
WA-0328	COGENERATION PROJECT	1/11/200	5 GENERATOR	GAS	17-	4 MW	WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR.	GAS	- 0				0	1	0		AVAILABLE-
	Footprint Power Salem Harbor Development LP		Combustion Turbine	Natural Gas	2.4	6 MW		Low Sulfur Fuels		Ha/har	1-hr average; Duc Burners On	0.001	5 lb/MMBtu	1-hr average; Duc Burners On			1
	Footprint Power Salem Harbor		Compusion rurbine	radual Gas	340			Down Sandii Fucis	3./	north .	1-hr average; Duc			1-hr average; Duc			$\overline{}$
	Development LP		Combustion Turbine	Natural Gas	34	6 MW		Low Sulfur Fuels	0.3	PPMVD	Burners On	0.0	l lb/MW-hr	Burners On			
	UGI Development Co/ Hunlock																
	Creek		1	Natural Gas	471.	2 MMBtu/hr			0.003	lb/MMBtu	1	1	1				
						lam.		1			0.0011						1
	Hess Newark Energy Center	1	Combustion Turbine	Natural Gas	226	6 MMBtu/hr 5 MMBtu/hr	firing NG with duct burner	+	0.00140	lb/hr lb/MMBtu	0.00110326	6	_	+			
	York Energy Center Block 2	6/15/201															

Table D-A-14 Sulfur Dioxide (SO2) RBLC Search - Combustion Turbines Firing Natural Gas (Without Duct Burning) Invenergy, LLC - Allegheny County Energy Center Project

BLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
DECID	LACILITI NAME		Combined-cycle	LOEL				Discoul HON		0.31	COMPTION	Landii 2	i contra	COMPTION	L. HISSION LIMIT	L.di	CONDITION
	OKEECHOBEE CLEAN		Combined-cycle electric generating				3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas.			GR. S/100 SCF	FOR NATURAL						
L-0356	ENERGY CENTER	3/9/2016	unit	Natural gas	3096	6 MMBtu/hr per turbine	Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Use of low-sulfur fuels	2	GAS	GAS	0.001	% S IN ULSD	FOR ULSD	1	-	
FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	2-on-1 combined cycle unit (GE 7HA)	Natural oas	4000	0 MMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Clean fuels		,			,		,		
12 0303	CLIVILIC	12.42017	Combined Cycle	, i tuturur gus	4000			GOOD COMBUSTION PRACTICES,	,			,		ANNUAL.	,		
X-0788	NECHES STATION	3/24/2016	Combined Cycle & Cogeneration	natural gas	231	ı MW	CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW (GE) Simple cycle operations limited to 2,500 hr/yr.	LOW SULFUR FUEL	1	GR/100 SCF	HOURLY	0.25	GR/100 SCF	ANNUAL AVERAGE			
	DECORDOVA STEAM		Combined Cycle				2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	GOOD COMBUSTION PRACTICES									
X-0789	ELECTRIC STATION	3/8/2016	& Cogeneration	natural gas	231	l MW	(GE). Simple cycle operations limited to 2,500 hr/yr.	AND LOW SULFUR FUEL		GR/100 SCF	HOURLY		GR/100 SCF	ANNUAL	-		
	PORT ARTHUR LNG		Refrigeration Compression					Dry low NOx burners, good combustion practices, pipeline quality sweet natural									
X-0790	EXPORT TERMINAL	2/17/2016	Turbines	natural gas	10	M TONNES/YR	Four GE Frame 7E gas turbines for refrigeration and compression at the site	gas fuel (low sulfur fuel)	5	GR/100 SCF		((
			Simple Cycle Electrical					practices -									
X-0790	PORT ARTHUR LNG EXPORT TERMINAL	2/17/2016	Generation Gas Turbines 15.210 Combined Cycle	natural gas	34	4 MW	Nine GE PGT25+G4 gas turbines for electrical generation at the site at 34 MW/turbine	Good combustion practices and use of low carbon, low sulfur fuel	2.96	LB/H		1.88	T/YR				
			Combined Cycle Turbine with Heat														
			Recovery Steam Generator, fired														
			Duct Burners, and														
X-0819	GAINES COUNTY POWER PLANT	4/28/2017	Steam Turbine Generator	NATURAL GAS	426	5 MW	Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam Turbine Generators	Pipeline quality natural gas	1.54	GR/100 DSCF			,				
TX-0834	MONTGOMERY COUNTY	3/30/2018	Combined Cycle Turbine	NATURAL GAS		MMBTU/HR/UNIT		PIPELINE QUALITY NATURAL GAS		GR/100 DSCF							
1A-0854	POWER STATIOIN	3/30/2018	1 uroine	GAS	263	MIMB I U/HK/UNIT	Two Mitsubishi M501GAC turbines (without fast start) GENERATING CAPACITY: EACH OF THE FOUR GAS TURBINES HAS A NOMINAL	FIFELINE QUALITY NATUKAL GAS	<u> </u>	GRO 100 DSCF		· ·			1		
							GENERATING CAPACITY OF 170 MW FOR GAS FIRING (180 MW FOR OIL FIRING).										
							EACH OF THE FOUR HEAT RECOVERY STEAM GENERATORS (HRSGS) PROVIDES STEAM TO THE SINGLE STEAM TURBINE ELECTRICAL GENERATOR, WHICH HAS										
							A NOMINAL CAPACITY OF 470 MW. THE TOTAL NOMINAL GENERATING CAPACITY OF THE 4-ON-1 COMBINED CYCLE UNIT IS 1150 MW.										
							FUELS: EACH GAS TURBINE WILL FIRE NATURAL GAS AS THE PRIMARY FUEL AND ULTRA LOW SULFUR (0.0015% SULFUR) DISTILLATE OIL AS A RESTRICTED										
							ALTERNATE FUEL. EMISSIONS OF ALL POLLUTANTS INCREASE WITH THE FIRING OF OIL. THE APPLICANT REQUESTS 500 HOURS PER YEAR PER GAS	EMISSIONS OF SAM AND SO2 WILL									
			170 MW				TURBINE (OR EQUIVALENT) FOR OIL FIRING.	BE MINIMIZED BY FIRING									
	FPL TURKEY POINT		COMBUSTION TURBINE, 4	NATURAL			MODES OF OPERATION: STANDARD NORMAL OPERATION, WITH DUCT	NATURAL GAS AND RESTRICTING THE AMOUNTS OF ULTRA LOW		GR S/100 SCF							NOT
L-0263	POWER PLANT	2/8/2005	UNITS	GAS	170	MW	BURNER, POWER AUGMENTATION AND PEAKING.	SULFUR DISTILLATE OIL.	2	GAS		0.001	% S		(AVAILABLE
L-0265	HINES POWER BLOCK 4	6/8/2005	CYCLE TURBINE	NATURAL GAS	530	MW		CLEAN FUELS	2	GR S/100 SCF GAS	CONTINUOUS	0.03	% S	CONTINUOUS			
			COMBINED CYCLE														
	PROGRESS BARTOW		COMBUSTION TURBINE	NATURAL			1876 MMBTU/HR WHEN FIRING DISTILLATE FUEL OIL.			GR S/100 SCF				FUEL OIL BY			
L-0285	POWER PLANT	1/26/2007	SYSTEM (4-ON-1)	GAS	1972	MMBTU/H	THE SYSTEM NOMINAL CAPACITY 1280 MW. EACH UNIT NOMINAL CAPACITY 215 MW (ISO) WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATOR.		2	GR S/100 SCF 2 GAS	NATURAL GAS	0.0	% S	WEIGHT	(
			300 MW COMBINED														
	CANE ISLAND POWER		CYCLE COMBUSTION	NATURAL						GR S/100 SCF							
L-0304	PARK	9/8/2008	TURBINE	GAS	1860	MMBTU/H	Basis for the emission standard is either NSPS Subpart KKKK or Department BACT	FUEL SPECIFICATIONS.	2	GAS GAS		((
							determinations.										
			Combine cycle				The BACT emission standards for NOX while operating in combined cycle are more stringent than the corresponding Subpart KKKK emissions standards of 15 and 42 ppmvd @15% O2 on			GR S/100 SCF							
L-0337	POLK POWER STATION	10/14/2012	power block (4 on 1)	natural gas	1160	MW	a 30-day rolling average for natural gas and fuel oil, respectively. EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS		2	GAS		0.001	% S				
			FOUR (4)				FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR										
			NATURAL GAS COMBINED				IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC										
	ST. JOSEPH ENEGRY		CYCLE COMBUSTION	NATURAL			EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR			GR S/100 SCF							
IN-0158	CENTER, LLC	12/3/2012	TURBINES	GAS	2300	MMBTU/H	NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	FUEL SPECIFICATION	0.75	GAS		((
A-0192	CRESCENT CITY POWER	6/6/2005	GAS TURBINES - 187 MW (2)		2006	6 MMBTU/H		USE OF LOW SULFUR NATURAL GAS, 1.8 GRAINS PER 100 SCF	10.1	l lb/hr	HOURLY MAXIMUM	44.3	T/YR	ANNUAL MAXIMUM			
			2 COMBINED CYCLE														
			COMBUSTION TURBINES,														
	WILDCAT POINT		WITHOUT DUCT	NATURAL				EXCLUSIVE USE OF PIPELINE			3-HOUR BLOCK						
MD-0042	GENERATION FACILITY	4/8/2014	FIRING TURBINE,	GAS	270	MW		QUALITY NATURAL GAS USE OF CLEAN FUELS, NATURAL	6.3	ib/hr	AVERAGE	-		1	1		
J-0074	WEST DEPTFORD ENERGY	5/6/2009	COMBINED CYCLE	NATURAL GAS	17709	8 MMFT3/YR		GAS AND ULTRA LOW SULFUR DISTILLATE OIL	5.64	5 lb/hr			,		,		
0.0074	TEST DEI HORD ENERGI	5/6/2009	CICLE	0.10	17290	Januar I St I K	This is a 427 MW Siemens Combined Cycle Turbine with duct burner	DISTRIBUTE	3.00	, ioili	AVERAGE OF	<u> </u>			1		
			Combined Cycle				Heat Input rate of the turbine = 2276 MMbtu/hr (HHV) Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)				THREE ONE						
NJ-0082	WEST DEPTFORD ENERGY STATION	7/18/2014	Combustion Turbine without Duct Burner	Natural Gas	2028	MMCF/YR	The fuel use of 20.282 MMCF/YR is for three turbines and three Duct burner	Use of natural gas a clean burning fuel	4 94	lb/hr	HOUR STACK TESTS		,				
			2 Combined Cycle		20203		The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burner. Two Missubish 2933 MMBurH combined cycle combustion turbines, both with 300 MMBurH duct burners, with dry low NOx combustors, SCR, and eatalytic oxidizer. Will	The same and the s	1.5			·			1		
			Combustion				install either 2 Siemens or 2Mitsubishi, not both (not determined).										
OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Turbines-Siemens, without duct burners	Natural Gas	515600	MMSCF/rolling 12- months	Short term limits are different with and without duct burners. This process without duct burners.	low sulfur fuel, only burning natrual gas with GR/100 SCF	0.0014	LB/MMBTU		34.2	T/YR	PER ROLLING I MONTHS	2		
							Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300										
			2 Combined Cycle				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
	1	I	Combustion Turbines-Mitsubishi,				install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.	low sulfur fuel, only burning natural gas				1		PER ROLLING 1	2.		
	OREGON CLEAN ENERGY		I urbines-Mitsubishi.														
OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	without duct burners	Natural Gas	47913	7 MMSCF/rolling 12-MO	This process without duct burners.	with 0.5 GR/100 SCF	0.0014	LB/MMBTU		34.2	T/YR	MONTHS	(
OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	without duct burners		47917	7 MMSCF/rolling 12-MO	This process without duct burners.	with 0.5 GR/100 SCF	0.0014	LB/MMBTU		34.2	T/YR	MONTHS			

Table D-A-14 Sulfur Dioxide (SO2) RBLC Search - Combustion Turbines Firing Natural Gas (Without Duct Burning) Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
			ROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	CITY PUBLIC SERVICE JK		PRUCE POWER														
	SPRUCE ELECTRICE	G	ENERATOR														
TX-0516	GENERATING UNIT 2	12/28/2005 U	NIT NO 2						21	880 lb/hr		2102	T/YR		0		
							(2) GE7FA at 195 MW each,										
							(1) steam turbine at 200 MW.										
	THOMAS C. FERGUSON		latural gas-fired				Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which										
TX-0600	POWER PLANT	9/1/2011 tu	ırbines	natural gas	39	0 MW	provides steam for the steam turbine.	pipeline quality natural gas	27	.07 lb/hr	1-H	0			0		
	FREEPORT LNG						The exhaust heat from the turbine will be used to heat a heating medium which is used to										
*TX-0678	PRETREATMENT FACILITY	7/16/2014 C	ombustion Turbine	natural gas	8	7 MW	regenerate rich amine from the acid gas removal system.		3	.68 lb/hr		0			0		
							Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.										
			ombined-cycle gas				These limits are for each of the 4 turbines individually, while operating with the duct burners										
	COLORADO BEND ENERGY		arbine electric				on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct			GR S/100 SCF			GR S/100 SCF				
*TX-0730	CENTER		enerating facility	natural gas	110	0 MW	burners.	efficient combustion, natural gas fuel		2 GAS	1-HOUR	0.5	GAS	ANNUAL	0		
			OMBUSTION														
	BRUNSWICK COUNTY		URBINE				Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners										
*VA-0321	POWER STATION	3/12/2013 G	ENERATORS, (3)	Natural Gas	344	2 MMBTU/H	(natural gas-fired).	Low sulfur fuel	0.00	011 LB/MMBTU		0			0		
													GR S/100 SCF				
	Catoctin Power LLC	C	ombustion Turbine	Natural Gas	17	0 MW		Pipeline quality low sulfur NG	6	.17 lb/hr	Monthly average	1	GAS	Sulfur content			
	Footprint Power Salem Harbor										1-hr average; Duct			1-hr average; Duct			
	Development LP	C	ombustion Turbine	Natural Gas	34	6 MW		Low Sulfur Fuels		3.5 lb/hr	Burners Off		lb/MMBtu	Burners Off			
	Footprint Power Salem Harbor Development LP					6 MW					1-hr average; Duct			1-hr average; Duct			
\vdash	Development LP	С	ombustion Turbine	Natural Gas	34	6 MW		Low Sulfur Fuels		0.3 PPMVD	Burners Off	0.01	LB/MWh	Burners Off			
	Cricket Valley Energy Center		ombustion Turbine		100	0 MW			0.00	015 lb/MMBtu	1-hr average						
	Cricket Valley Energy Center	C	ombustion Turbine	Natural Gas	100	0 MW			0.00	J15 lb/MMBtu	1-hr average						
	Tenaska Partners LLC		ombustion Turbine	Natural Con	214	7 MMBtu/hr				2.7 lb/hr							
-	UGI Development Co/ Hunlock	C	ombustion Turbine	i ivaturai Gas	314	/ MMDtwnr				2./ HO/HF							
1 '	Creek			Natural Gas	471	2 MMBtu/hr			0.0	003 Ib/MMRtu		1		1			
	Creek			Naturai Gas	4/1	2 MMBtwnr			0.0	JUS TO/MINIDIU							
1 '	Hess Newark Energy Center	l .	ombustion Turbine	Natural Gas	222	0 MMBtu/hr			1	2.8 lb/hr		1		1			
	York Energy Center Block 1	L C	omousion Turbine	Ivaturar Gas		4 MMBtu/hr				2.8 lb/mr 003 lb/MMBtu	hourly basis						
	York Energy Center Block 2	6/15/2015					firing NG without duct burner			149 lb/MMBtu	mounty oddis						
	Calpine/Bethlehem Energy	6/13/2013			2312	JIMMIMI	ming NO without duct bullet		0.00	147 IOWINDU	1	1					
1 '	Center				12	2 MW			0.0	003 lb/MMBtu		1	1	1		l	1

Table D-A-15

Sulfuric Acid (H₂SO₄) RBLC Search - Combustion Turbines Firing Natural Gas (With Duct Burning) Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME STANDARA		AVG TIME
RBLCID	FACILITY NAME KILLINGLY ENERGY	DATE	PROCESS NAME Natural Gas w/Duct	FUEL	THROUGHPUT	THROUGHPUT	UNIT PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION EMISSION	IMIT UNIT	CONDITION
CT-0161	CENTER	06/30/2017 AC	Firing SCPS Combined	Natural Gas	263	9 MMBtu/hr	Duct burner MRC is 946 MMbtu/hr	Low Sulfur Fuels	0	LB/MMBTU			0		0	
LA-0313	ST. CHARLES POWER STATION	08/31/2016 AC	SCPS Combined Cycle Unit 1A	Natural Gas	360	5 MMBTU/hr		Use of low sulfur fuel	1 21	LB/H	HOURLY MAXIMUM	5	28 T/YR	ANNUAL MAXIMUM	0	
	ST. CHARLES POWER		SCPS Combined								HOURLY			ANNUAL	- 0	
LA-0313	STATION	08/31/2016 AC	Cycle Unit 1B	Natural Gas	362	5 MMBTU/hr		Use of low sulfur fuels	1.21	LB/H	MAXIMUM	5.	28 T/YR	MAXIMUM	0	
			combined cycle	1												
			combustion turbine and heat recovery				Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG) trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped with dry low NOx	Use of clean fuel (natural gas) with a fuel						NAT GAS		
	NEW COVERT		steam generator				combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fired duct burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	sulfur limit of 0.8 grains per 100 standard			HOURLY; EACH			BURNED IN FG-		
*MI-0432	GENERATING FACILITY	07/30/2018 AC	trains)	Natural gas	123	0 MW	burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	cubic feet of natural gas.	1	LB/H	CT/HRSG TRAIN	(0.8 GR/100 SCF	TURB/DB1-3	0	
			(South Plant): A				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery									
			combined cycle natural gas-fired				steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080									
			combustion turbine				MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755									
			generator with heat				MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The	L								
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	06/29/2018 AC	recovery steam	Natural gas	50	0 MW	HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	Good combustion practices and the use of pipeline quality natural gas.	2.7	LB/H	HOURLY		0		0	
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
							Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV).									
			EUCTGHRSG													
			(North Plant): A combined-cycle				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a									
			natural gas-fired				nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080									
			combustion turbine				MMBTU/hr (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The									
	MEC NORTH, LLC AND		recovery steam				HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped	Good combustion practices and the use of	-							
°MI-0433	MEC SOUTH LLC	06/29/2018 AC	generator.	Natural gas	50	0 MW	HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB). SCR. and an oxidation catalyst. Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	pipeline quality natural gas.	2.7	LB/H	HOURLY		0		0	
				1			1 wo (2) combined-cycle natural gas-tired combustion turbine generators, each with a near recovery steam generator (CTGHRSG).									
			FGCTGHRSG			1										
			(EUCTGHRSG1				Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H and HRSG duct burners are each rated at 800 MMBTU/H.							HOURLY: EACH		
	BELLE RIVER COMBINED		&					Good combustion practices and the use of			HOURLY; EACH			UNIT W/O DUCT		
°MI-0435	CYCLE POWER PLANT	07/16/2018 AC	EUCTGHRSG2)	Natural gas		0	The HRSGs are not capable of operating independently from the CTGs.	pipeline quality natural gas.	0.0013	LB/MMBTU	UNIT	5.	04 LB/H	BURNER FIRING	0	
			Combined Cycle								AV OF THREE					
	MIDDLESEX ENERGY		Combustion Turbine firing Natural Gas					USE OF NATURAL GAS A LOW			ONE H STACK TESTS EVERY 5					
NJ-0085	CENTER, LLC	07/19/2016 AC		natural gas	400	0 h/yr		SULFUR FUEL	4.26	LB/H	YR		0		0	
	TENASKA PA PARTNERS/WESTMORELA		Large combustion					Low sulfur fuel and good combustion								
*PA-0306	ND GEN FAC	02/12/2016 AC	turbine	Natural Gas		0	This process entry is for operations with the duct burner. Limits entered are for each turbine. Emission limits are for each turbine operating with duct burner and do not include	practices	0.0006	LB/MMBTU	HHV		.8 LB/HR		0	
							Emission limits are for each turbine operating with duct burner and do not include startup/shutdown emissions. Tons per year limits is a cumulative value for all three CCCT.									
							CEMS for NOx, CO, and O2.									
							Each CCCT and duct burner have 5 operational scenarios: 1 CCCT with duct burner fired - fueled by NG only									
							2 CCCT with duct burner fired - fueled by NG blend with ethane									
	CPV FAIRVIEW ENERGY		Combustion turbine and HRSG with duct				3 CCCT without duct burner fired - fueled by NG only	ULSD fuel (CCCT only - duct burner is								
*PA-0310	CENTER CENTER	09/02/2016 AC	burner NG only COMBUSTION	Natural Gas	333	8 MMBtu/hr	4 CCCT without duct burner fired - fueled by NG blend with ethane 5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)	not fired with ULSD), good combustion practices	0.0014	LB/MMBTU			0		0	
			COMBUSTION TURBINE													
			GENERATOR													
			WITH DUCT- FIRED HEAT													
			RECOVERY													
	GREENSVILLE POWER		STEAM					L						12 MO ROLLING		
*VA-0325	STATION	06/17/2016 AC	GENERATORS (3)	natural gas	322	7 MMBTU/HR	3227 MMBTU/Hr CT with 500 MMBTU/Hr Duct Burner, 3 on 1 configuration. 500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr	Low Sulfur fuel	0.0006	LB/MMBTU			9.9 T/YR	AVG	0	
	NRG ENERGY CENTER						500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified				1 HOUR					
*DE-0023	DOVER	10/31/201:	UNIT 2- KD1	Natural Gas	6:	5 MMBTU/H	CEMS and COMS.		0.12	lb/hr	AVERAGE 12 MONTH		0		0	
	GARRISON ENERGY										ROLLING					
DE-0024	CENTER	1/30/201	Unit 1 300 MW	Natural Gas	226	0 million BTUs			24.3	TONS	AVERAGE		0		0	
			COMBINED			1										
	CANE ISLAND POWER		CYCLE COMBUSTION	NATURAL						GR S/100 SCF						
FL-0304	PARK	9/8/200	TURBINE	GAS	186	0 MMBTU/H		FUEL SPECIFICATIONS	2	GAS			0		0	
	MARSHALLTOWN		Combustion turbine			1					AVERAGE OF 3 ONE-HOUR TEST			12-MONTH ROLLING		
*IA-0107	GENERATING STATION	4/14/2014	#2 -combined cycle	natural gas	225	8 mmBtu/hr	C. CHATTARRE IN FOLUMER WITH RR		0.0032	LB/MMBTU	RUNS	31	.3 TON/YR	TOTAL	0	
			FOUR (4)				EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR									
			NATURAL GAS	1		1	IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE									
			COMBINED CYCLE			1	CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN									
	ST. JOSEPH ENEGRY		COMBUSTION	NATURAL		1	EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR			GR S/100SCF						
*IN-0158	CENTER, LLC	12/3/2013	TURBINES	GAS	230	0 MMBTU/H	NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	FUEL SPECIFICATION	0.75	FUEL	*SEE NOTES		0		0	
			GAS TURBINES -	1				USE OF LOW SULFUR NATURAL			HOURLY			ANNUAL		
LA-0192	CRESCENT CITY POWER	6/6/200	187 MW (2) TWO COMBINED	-	200	6 MMBTU/H		GAS, 1.8 GRAINS PER 100 SCF USE OF LOW-SULFUR PIPELINE	8.5	lb/hr	MAXIMUM	31	.2 T/YR	MAXIMUM	0	
	ARSENAL HILL POWER		CYCLE GAS	NATURAL		1	CTG-1 TURBINE/DUCT BURNER (EQT012)	QUALITY NATURAL GAS AS FUEL								
LA-0224	PLANT	3/20/2009	TURBINES	GAS	21	0 MMBTU/H	CTG-2 TURBINE/DUCT BURNER(EQT013)	AND PROPER SCR DESIGN	1.85	lb/hr	MAX 1 HR AVG, DOES		0	1 HR AVG, DOES	0	
	SALEM HARBOR STATION		Combustion Turbine			1	two 315 MW (nominal) GE Energy 7F Series 5 Rapid Response Combined Cycle Combustion				NOT APPLY		PPMVD @ 15%	NOT APPLY		
*MA-0039	REDEVELOPMENT	1/30/2014	with Duct Burner	Natural Gas	244	9 MMBtu/hr	Turbines with Duct Burners and 31 MW (estimated) steam turbine generators		0.001	LB/MMBTU	DURING SUSD		0.1 02	DURING SUSD	0	
			2 COMBINED	1			TWO MITSUBISHI &Isquo&IsquoG&IsquoMODEL COMBUSTION TURBINE									
			CYCLE	1			GENERATORS (CTS) WITH A NOMINAL GENERATING CAPACITY OF 270 MW CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR									
					1	1	ICAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR		1	1		1	1	1 1	- 1	1
	WILDCAT POINT		TURBINES, WITH	NATURAJ.			(HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS,	EXCLUSIVE USE OF PIPELINE			3-HOUR BLOCK					

Table D-A-15

Sulfuric Acid (H₂SO₄) RBLC Search - Combustion Turbines Firing Natural Gas (With Duct Burning) Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT		DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			TURBINE, COMBINED CYCLE,				Each of these units have a natural gas-fired hear recovery steam generote and a natural gas-fired hear recovery steam generote and a natural gas-field duck burner. Each CT combusts natural gas as the primary fuel and very low-suffer No. 2 fael oil as a backup fuel. The use of fuel oil is limited to 1,200 hounser per year and only during the months of November through March, and is listed as a separate process. These units are listed	VERY LOW-SULFUR FUEL (NATURAL GAS) OR NO. 2 FUEL OIL									
			NATURAL GAS,	NATURAL			as a combined source (all three units) for each type of	(0.015% SULFUR									
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	TURBINE & amp:	GAS	1844.	3 MMBTU/H	fuel.	CONTENT BY WEIGHT).	0		SEE NOTE	0			()	
			DUCT BURNER,														
			COMBINED CYCLE, NAT GAS,	NATURAL			Each of these units have a natural gas-fired HRSG & a natural gas fired duct burner. Limits for this process	USE OF LOW SULFUR FUEL									
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	COMBINED	GAS	1844.	3 MMBTU/H	are for turbines and duct burners.	(NATURAL GAS)	0		SEE NOTE	0			()	
			CYCLE				Natural Gas Usage <= 33,691 MMft^3/yr										
	PSEG FOSSIL LLC		COMBUSTION TURBINE WITH				per 365 consecutive day period, rolling one day basis (per two Siemens turbines and two associated duct burners)										
*NJ-0081	SEWAREN GENERATING STATION	3/7/2014	DUCT BURNER - SIEMENS	Natural Gas	2260	MMCUBIC FT PER 1 YEAR	The heat input rate of the Siemens turbine will be 2,356 MMBtu/hr(HHV) with a 62.1 duct burner MMBtu/hr(HHV).	Use of natural gas a clean burning fuel	2.79	lls/lse							
10-0081	SIATION	3/1/2019	COMBINED	Natural Gas	3309	LILAK		Ose of natural gas a crean outning ruer	2.79	IOIII					,		1
	PSEG FOSSIL LLC		CYCLE COMBUSTION TURBINE WITH DUCT BURNER -				Natural Gas Usage <= 33,691 MMft^3/yr per 365 consecutive day period, rolling one day basis (per two turbines and two duet burners)										
*NJ-0081	SEWAREN GENERATING STATION	3/7/2014	GENERAL 4 ELECTRIC	Natural gas	3369	1 MMCUF/year.	The heat input rate of each General Electric combustion each turbine will be 2,312 MMRtu/br/HHV) with a 164.4 MMRtu/br duet burner.	Use of natural gas a clean burning fuel and a low sulfur fuel	2 93	lls/hr							
		3.7.2014			2309		MMBtuhr(HHV) with a 164.4 MMBtuhr duct burner This is a 427 MW Sienens Combined Cycle Turbine with duct burner Heat Input rate of the turbine = 2276 MMturhr (HHV)		1			1			,		1
			Combined Cycle				Heat Input rate of the turbine = 2276 MMbtu/hr (HHV) Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)										
*NJ-0082	WEST DEPTFORD ENERGY STATION	7/18/2014	Combustion Turbine with Duct Burner	Natural Gas	2028	2 MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners.	Use of natural gas a clean burning fuel	0.98	lb/hr		0				,	
	CAITHNES BELLPORT	5/10/2006	COMBUSTION	NATURAL		MMRUT/H			0.70	I B/MMRTU					1		1
NY-0095	ENERGY CENTER	5/10/2006	TURBINE	GAS	222	I MMBUT/H	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	LOWSULFUR FUEL	0.0004	LB/MMBTU		0		+	-	1	+
	DUKE ENERGY HANGING		Turbines (4) (model GE 7FA) Duct	NATURAL			These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Burning natural gas in an efficient combustion turbine and using low sulfur						PER ROLLING 1	,		
*OH-0356	ROCK ENERGY	12/18/2012	2 Burners On	GAS	17:	2 MW	burners.	fuel.	0.23	lb/hr		1.01	T/YR	MONTHS	(
			Mitsubishi M501- GAC combustion turbine, combined														
*OR-0050	TROUTDALE ENERGY CENTER, LLC	3/5/2014	cycle configuration with duct burner.	natural es	298	8 MMBtu/hr	or ULSD; Duct burner 499 MMBtu/hr, natural gas	Utilize only natural gas or ULSD fuel.				0					
																	1
			Combined-cycle				Two combine cycle Turbines, each with a combustion turbine and heat recovery steam generator with duct burner. Each combined-cycle process will be rated at 468 MW or less.										
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	10/10/2012	Turbines (2) - Natural gas fired	Natural Gas	327	7 MMBTU/H	The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and the heat input rating of each supplemental duct burner is equal to 387 MMBtu/hr (HHV) or less.		0.0002	LB/MMBTU		1.5	LB/H	468 MW POWERBLOCK			
	MOXIE ENERGY LLC/PATRIOT		Combined Cycle Power Blocks 472				Two natural-gas-fired combined cycle powerblocks where each powerblock consists of a					-		TOTAL PM -			1
*PA-0286	GENERATION PLT	1/31/2013	3 MW - (2)	Natural Gas		0	two natural-gas-tired combined cycle powerblocks where each powerblock consists of a combustion turbine and heat recovery steam generator with duct burner.		0.0005	LB/MMBTU		2.4	T/YR	EACH UNIT	()	
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Turbine, Combined Cycle, #1 and #2	Natural Gas	304	6 MMBtu/hr	Equipped with SCR and Oxidation Catalyst		2.97	T/YR		0.87	lb/hr				
			Turbine, COMBINED											BASED ON A 12- MONTH			1
	FUTURE POWER PA/GOOD		CYCLE UNIT								WITH DUCT			ROLLING			
*PA-0298	SPRINGS NGCC FACILITY	3/4/2014	4 (Siemens 5000)	Natural Gas	226	7 MMBtu/hr			3.4	lb/hr	BURNER	14.3	T/YR	TOTAL	()	
	INFOS CHOCOLATE		COGENERATION TRAIN 2 AND 3 (TURBINE AND	NATURAL			GREEN POWER ONE WILL CONSIST OF TWO NOMINALLY RATED 35 MW GAS FIRED TUBBINS AND TWO HEAT RECOVERY STEAM GENERATORS, EQUIPPED WITH 312 MMBTUJIR DUCT BURNERS. THE COMBUSTION TURBINSE WILL ONLY BURN PIPELINE QUALITY SWEET NATURAL GAS. THE DUCT BURNERS WILL BURN NATURAL GAS, COMPLEX GAS OR MIXTURES OF NATURAL GAS. AND COMPLEX GAS. STEAM PRODUCED IN THE HEAGS WILL BE USED IN THE CHOCOLATE BAYOU WORKS CHEMICAL COMPLEX. THE CHEMICAL COMPLEX WILL CONSUME APPROXIMATELY HALF OF THE LETCHLEAUGHLY PRODUCED BY THE TWO NEW TURBINES. EXCESS POWER PRODUCED BY THE COMBUSTION TURBINS WILL BE SOLD TO THE GROW.	THE TURBINES WILL FIRE NATURAL GAS AND THE DUCT BURNERS WILL FIRE NATURAL GAS AND COMPLEX GAS WITH A SULFUR CONTENT LESS THAN FIVE									
TX-0497	BAYOU FACILITY	8/29/2006	DUCT BURNER EMISSIONS)	GAS	3:	5 MW	THE EMISSIONS ARE PER TRAIN.	GRAINS PER 100 STANDARD CUBIC FEET ON AN HOURLY BASIS	1.94	lb/hr		1.54	T/YR		()	
			WESTINGHOUSE/ SIEMENS MODEL														
	NACOGDOCHES POWER		SW501F GAS TURBINE W/ 416.5														
L	STERNE GENERATING		MMBTU DUCT	NATURAL													
TX-0502	FACILITY CITY PUBLIC SERVICE JK	6/5/2006	SPRUCE POWER	GAS	19	0 MW			1.3	lb/hr		13.6	T/YR		-		+
TX-0516	SPRUCE ELECTRICE GENERATING UNIT 2	12/28/2005	GENERATOR UNIT NO 2						4.4	lb/br		120	T/YR				
2250310	GENERATING COST 2	12/28/2003	JOHN NO Z				(2) GE7FA at 195 MW each,		-	no nd		129			,		1
	THOMAS C. FERGUSON		Natural gas-fired				(1) steam turbine at 200 MW. Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which										
TX-0600	POWER PLANT	9/1/2011	l turbines	natural gas	39	0 MW	provides steam for the steam turbine. The gas turbines will be one of three options:	pipeline quality natural gas	13.68	lb/hr	1-H	0		_)	+
							(I) Two Siemens Model F5 (SF5) CTGs each rated at nominal capability of 225 megawatts (MW). Each CTG will have a duct fired HRSG with a maximum heat input of 688 million British thermal units per hour (MMBtu/hr).										
							(2) Two General Electric Model 7FA (GE7FA) CTGs each rated at nominal capability of 215 MW. Each CTG will have a duet fired HRSG with a maximum heat input of 523 MMBtu/hr.										
*TX-0714	S R BERTRON ELECTRIC GENERATING STATION	12/19/2014	(2) combined cycle 4 turbines Combined-cycle gas	natural gas	24	D MW	(3) Two Mitsubishi Heavy Industry G Frame (MHI501G) CTGs each rated at a nominal electric output of 263 MW. Each CTG will have a duct fired HRSG with a maximum heat input of 686 MMBtu/hr.		0.5	GR SULFUR/100 DSCF		0			(
*TX-0730	COLORADO BEND ENERGY CENTER	4/1/2015	turbine electric generating facility	natural gas	110	0 MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	efficient combustion, natural gas fuel	2	GR/100 SCF	1-HOUR	0.5	GR/100 SCF	ANNUAL			

$Table \ D-A-15$ $Sulfuric \ Acid \ (H_2SO_4) \ RBLC \ Search - Combustion \ Turbines \ Firing \ Natural \ Gas \ (With \ Duct \ Burning)$ $Invenergy, \ LLC - Allegheny \ County \ Energy \ Center \ Project$

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	IEMISSION		LAVOTIME	EMISSION		AVG TIME	STANDARAD	1	AVG TIME
	l				THROUGHPUT			DESCRIPTION			AVG TIME CONDITION	LIMIT 2	UNIT				CONDITION
RBLCID	FACILITY NAME	DATE	PROCESS NAME		THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
1			Combined Cycle														
			Turbines (>25				Two power configuration options authorized										
	EAGLE MOUNTAIN STEAM		MW) – natural				Siemens â€" 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner										
*TX-0751	ELECTRIC STATION	6/18/20		natural gas		210 MW	GE â€" 210 MW + 349.2 MMBtu/hr duct burner		15.56	lb/hr		13.6.	3 T/YR		0		
1			COMBINED														
			CYCLE TURBINE	E													
	WARREN COUNTY POWER		& DUCT				Emissions are for one of three units (Mitsubishi natural gas-fired combustion turbine (CT)				WITHOUT DUCT			WITH DUCT			
VA-0315	PLANT - DOMINION	12/17/20	10 BURNER, 3	Natural Gas		996 MMBTU/H	generator, Model M501 GAC).	Natural Gas burning.	0.0001	LB/MMBTU	BURNER FIRING	0.000	3 LB/MMBTU	BURNER FIRING	0		
			COMBUSTION														
	BRUNSWICK COUNTY		TURBINE				Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners				WITHOUT DUCT						
*VA-0321	POWER STATION	12/17/20	10 GENERATORS, (Natural Gas	3	442 MMBTU/H	(natural gas-fired).	Low sulfur fuel	0.0006	LB/MMBTU	BURNING		0		0		
			GE 7FA														
1			COMBUSTION														
			TURBINE & amp;														
			HEAT RECOVER				THREE IDENTICAL CT & HSRG UNITS. EACH CT WILL HAVE AN ANNUAL										
	BP CHERRY POINT		STEAM	NATURAL			AVERAGE CAPACITY RATING OF 1614 MMBTU/HR. EACH HRSG DUCT BURNER	LIMIT FUEL TYPE TO NATURAL									
WA-0328	COGENERATION PROJECT	1/11/20	05 GENERATOR	GAS		174 MW	WILL HAVE A MAXIMUM FIRING RATE OF 105 MMBTU/HR.	GAS	0				0		0		*SEE NOTES
1											1-hr average; Duct			1-hr average; Duct			
	Astoria Energy LLC		Combustion Turbin	ne Natural Gas	1	000 MW		Low Sulfur Fuels	0.001	lb/MMBtu	Burners On		7 lb/hr	Burners On			
1	Footprint Power Salem Harbor										1-hr average; Duct			1-hr average; Duct			
_	Development LP Footprint Power Salem Harbor		Combustion Turbin	ne Natural Gas		346 MW		Low Sulfur Fuels	2.3	lb/hr	Burners On		l lb/MMBtu	Burners On			
			<u>-</u>	I				l			1-hr average; Duct			1-hr average; Duct			
_	Development LP		Combustion Turbin	ne Natural Gas		346 MW		Low Sulfur Fuels	0.1	ppmvd @ 15% O	2 Burners On	0.00	8 lb/MW-hr	Burners On			
	Pioneer Valley		Combustion Turbin			387 MW			0.0010	lb/MMBtu							
	Pioneer Valley		Combustion Turbin	ne Naturai Gas		38/ MW			0.0019	Ib/MMBtu							
	1		<u>-</u>	I													
	Cricket Valley Energy Center		Combustion Turbin	ne Naturai Gas		000 MW			0.006	lb/MMBtu	1-hr average						
	Tenaska Partners LLC		Combustion Turbin		I .	147 MMBtu/hr			0.000574	lb/MMBtu			8 lb/hr				
-	UGI Development Co/ Hunlock		Compustion Turbin	ne inatural Gas	+	14 / MINIDUMI			0.000574	ioniviiviittii		13	9 10/III				
1	Creek	'		Natural Gas	1	71.2 MMBtu/hr			0.0000	lb/MMRtu							
$\overline{}$	CICCK		_	ivatural Gas	+	1.2 MINIBURIT		 	0.0009	IO IVIIVIID LU				+			
1	Hess Newark Energy Center		Combustion Turbin		1 .	266 MMBtu/hr			1.33	11. 4		0.0005	9 LB/MMBTU				
_	York Energy Center Block 1		Compustion Turbin	ne ivatural Gas		574 MMBtu/hr				lb/MMBtu	hourly basis	0.0005	A LD/MWBIO	+		1	
_	TOLK EINELEY CERTET BIOCK I				+ '	3/4 MMDtWiff		1	0.00046	IUIVIIVIIIIU	average of 3 test		1	+			1
1	York Energy Center Block 2	6/15/20	15		25	12.5 MMBtu/hr	firing NG with duct burner		0.00114	lb/MMBtu	rine						
	TOTAL LINEARY CHIRCH BROCK 2	0/13/20	***			and the same of th	ming ito min duct build	1	0.00114	io minista	average of 3 test						
1	York Energy Center Block 2	6/15/20	15		25	12.5 MMBtu/hr	firing NG without duct burner		0.00114	lb/MMBtu	rine						
	Calpine/Bethlehem Energy	0/13/20	**			and the same of th	ming its winner succession	1	0.00114	in in in in in in in in in in in in in i	Tun.			1			
1	Center					122 MW			0.00046	lb/MMBtu							

Table D-A-16 Sulfuric Acid (H₂SO₄) RBLC Search - Combustion Turbines Firing Natural Gas (Without Duct Burning) Invenergy, LLC - Allegheny County Energy Center Project

							invenergy, LLC - Allegneny County Energ								_		
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
T-0161	KILLINGLY ENERGY CENTER	6/30/2017	Natural Gas w/o Duct Firing	Natural Gas	2969	MMBtu/hr	Throughput is for turbine only	Low Sulfur content fuel	0.0005	LB/MMBTU		(0		
			Combined-cycle				3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total										
T-0356	OKEECHOBEE CLEAN ENERGY CENTER	3/9/2016	electric generating	Natural gas	3096	MMBtu/hr per turbine	unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas. Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Use of low-sulfur fuels		GR. S/100 SCF GAS	FOR GAS	0.001	% S IN ULSD	FOR ULSD	0		
	DANIA BEACH ENERGY		2-on-1 combined														
FL-0363	CENTER	12/4/2017	Combined Cycle	Natural gas	4000	MMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the	Clean fuels Good Combustion Practices and the use	(PROTOCOL	(0		+
MI-0423	INDECK NILES, LLC MIDDLESEX ENERGY	1/4/2017	CTGs with HRSGs)		8322	MMBTU/H	flexible group FGCTGHRSG. The total hours for startup and shutdown for each train shall not	of pipeline quality natural gas. USE OF NATURAL GAS A CLEAN	4.6	LB/H	WILL SPECIFY ONE H STACK	(0		
NJ-0085	CENTER, LLC	7/19/2016	Combustion Turbine firing Natural Gas	Natural Gas	8040	H/YR		BURNING FUEL	3.61	LB/H	TESTS EVERY 5	(0		
PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	and HRSG without duct burner NG only	Natural oas			Emission limits are for each turbine fueled by NG and operating without duct burner being fired and do not include startup/shutdown emissions.	Low sulfur fuels and good combustion practices	0.0014	LB/MMBTU					0		
TX-0788	NECHES STATION	3/24/2016	Turbines > 25		222	MW	4 Simple cycle CTGs, 2,500 hr/yr operational limitation. Facility will consist of either 232 MW (Siemens) or 220 MW (GE)	good combustion practices, low sulfur		GR/100 SCF	HOURLY	0.24	GR/100 SCF	ANNUAL AVERAGE			
	NECHES STATION		Combined Cycle	natural gas	232	MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	GOOD COMBUSTION PRACTICES	<u> </u>					ANNUAL			+
ΓX-0788	NECHES STATION DECORDOVA STEAM	3/24/2016	& amp; Cogeneration Combined Cycle	natural gas	231	MW	(GE) Simple cycle operations limited to 2,500 hr/yr. 2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW	AND LOW SULFUR FUEL GOOD COMBUSTION PRACTICES	1	GR/100 SCF	HOURLY	0.25	GR/100 SCF	AVERAGE	0		
ΓX-0789	ELECTRIC STATION MONTGOMERY COUNTY	3/8/2016		natural gas NATURAL	231	MW	(GE). Simple cycle operations limited to 2,500 hr/yr.	AND LOW SULFUR FUEL		GR/100 SCF	HOURLY	1	GR/100 SCF	ANNUAL	0		
TX-0834	POWER STATIOIN	3/30/2018		GAS	2635	MMBTU/HR/UNIT	Two Mitsubishi M501GAC turbines (without fast start) Nominal 640 mWe	PIPELINE QUALITY NATURAL GAS		GR/100 DSCF		(0		
	HARRISON COUNTY						All emission limits steady-state and include 1000 mmBtu/hr Duct Burner in operation										
WV-0029	POWER PLANT	3/27/2018	GE 7HA.02 Turbine	Natural Gas	3496.2	mmBtu/hr	Short Term startup and shutdown limits in lb/event given in permit. 500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr	Use of Natural Gas	3.8	LB/HR		16.7	TONS/YEAR		0.0009	LB/MMBTU	+
DE-0023	NRG ENERGY CENTER DOVER	10/31/2012	UNIT 2- KD1	Natural Gas	444	MMBTU/H	Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified CEMS and COMS.		0.12	llb/hr	1 HOUR AVERAGE	,					
DE 0025	GARRISON ENERGY	10/31/2012	0.412-101	Tutuu Cus	033	initio in	Claris and Costs.		0.13	10.11	12 MONTH ROLLING	,					
DE-0024	CENTER CENTER	1/30/2013	Unit 1 300 MW	Natural Gas	2260	million BTUs			24.3	TONS	AVERAGE	(0		
			COMBINED														
	CANE ISLAND POWER		CYCLE COMBUSTION	NATURAL						GR S/100 SCF							
L-0304	PARK	9/8/2008	TURBINE	GAS	1860	MMBTU/H		FUEL SPECIFICATIONS		GAS		(0		+
'IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	Combustion turbine #1 - combined cycle		2250	mmBtu/hr	two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258 mmBtu/hr generating approx. 300 MW each.		0.0022	LB/MMBTU	3 ONE-HOUR TEST RUNS	21.2	TON/YR	12-MONTH ROLLING			
IA-0107		4/14/2014		naturai gas	2238	mmoturir	ministurir generating approx. 300 M w each.		0.0032	LB/MMB1U	AVERAGE OF 3	31.2	TONTR	12-MONTH			+
IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	Combustion turbine #2 -combined cycle	natural gas	2258	mmBtu/hr			0.0032	LB/MMBTU	ONE-HOUR TEST RUNS	31.3	TON/YR	ROLLING TOTAL	0		
			GAS TURBINES -					USE OF LOW SULFUR NATURAL			*SEE NOTES. HOURLY			ANNUAL			
.A-0192	CRESCENT CITY POWER	6/6/2005	187 MW (2) 2 COMBINED		2006	MMBTU/H		GAS, 1.8 GRAINS PER 100 SCF	8.5	lb/hr	MAXIMUM	37.2	T/YR	MAXIMUM	0		
			CYCLE														
			TURBINES,														
MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	WITHOUT DUCT FIRING	NATURAL GAS	270	MW		EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS	9.1	lb/hr	3-HOUR BLOCK AVERAGE	(0		
			Turbines (4) (model				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction. These limits are for each of the 4 turbines individually, while operating with the duct burners	Burning natural gas in an efficient									
OH-0356	DUKE ENERGY HANGING ROCK ENERGY	12/18/2012	GE 7FA) Duct Burners Off	NATURAL	177	MW	off. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct burners.	combustion turbine and using low sulfur	0.15	lb/hr		1.01	T/YR	PER ROLLING MONTHS	12		
PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE		Turbine, Combined Cycle, #1 and #2	Natural Gas		MMBtu/hr	Equipped with SCR and Oxidation Catalyst	inci.		T/YR			lb/hr	MONTHS			
TA-0290	CITY PUBLIC SERVICE JK	12/1//2013	SPRUCE POWER	Naturai Gas	3046	MINIDIUM	Equipped with SCR and Oxidation Catalyst		2.9	1/1K		0.6.	ioni		-		
ΓX-0516	SPRUCE ELECTRICE GENERATING UNIT 2	12/28/2005	GENERATOR UNIT NO 2						44	lb/hr		125	T/YR		0		
							(2) GE7FA at 195 MW each, (1) steam turbine at 200 MW.										
TX-0600	THOMAS C. FERGUSON POWER PLANT	9/1/2011	Natural gas-fired turbines	natural gas	390	MW	Each turbine is equipped with an unfired heat recovery steam generator (HRSG), which provides steam for the steam turbine.	pipeline quality natural gas	13.68	lb/hr	1-H				0		
	COLORADO BEND ENERGY		Combined-cycle gas turbine electric				combined cycle power plant that uses two combustion turbines and one steam turbine, model										
TX-0730	CENTER	4/1/2015	generating facility COMBUSTION	natural gas	1100	MW	GE 7HA.02	efficient combustion, natural gas fuel	1	GR/100 SCF	1-HOUR	0.5	GR/100 SCF	ANNUAL	0		
	BRUNSWICK COUNTY		TURBINE	L		L	Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners	<u> </u>			WITHOUT DUCT						
VA-0321	POWER STATION	3/12/2013	GENERATORS, (3)			MMBTU/H	(natural gas-fired).	Low sulfur fuel		LB/MMBTU	BURNING 1-hr average; Duct	(1	1-hr average; Du	et 0		+
	Astoria Energy LLC Footprint Power Salem Harbor		Combustion Turbine			MW		Low Sulfur Fuels		lb/MMBtu	Burners Off 1-hr average; Duct		lb/hr	Burners Off 1-hr average; Du	et .		+
	Development LP Footprint Power Salem Harbor		Combustion Turbine	Natural Gas	346	MW		Low Sulfur Fuels	2.2	lb/hr	Burners Off 1-hr average: Duct		lb/MMBtu	Burners Off 1-hr average: Du	1		+
	Development LP		Combustion Turbine	Natural Gas	346	MW	Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	Low Sulfur Fuels	0.1	ppmvd @ 15% O2	Burners Off	0.007	lb/MW-hr	Burners Off			
							These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct										
	Pioneer Valley		Combustion Turbine	Natural Gas	387	MW	 This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct burners. 		0.0019	lb/MMBtu							
	Cricket Valley Energy Center		Combustion Turbine	Natural Gas	1000	MW			0.006	lb/MMBtu	1-hr average						
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	3147	MMBtu/hr			0.000574	lb/MMBtu		1.5	lb/hr				
	UGI Development Co/ Hunlock Creek			Natural Gas		MMBtu/hr				lb/MMBtu							1
	Hess Newark Energy Center York Energy Center Block 1		Combustion Turbine	Natural Gas	2320 1574	MMBtu/hr MMBtu/hr				lb/hr lb/MMBtu	hourly basis						
	Calpine/Bethlehem Energy Center				122	MW			0.00046	lb/MMBtu							
		•								•	•				·	•	

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RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSIO N LIMIT 2	UNIT	AVG TIME CONDITION	EMISSION LIMIT	UNIT	AVG TIME CONDITION
	ST. CHARLES POWER		SCPS Combined					Thermally efficient combustion turbines and good combustion									
LA-0313	STATION	8/31/2016	Cycle Unit 1A	Natural Gas	3625	MMBTU/hr		practices Thermally efficient combustion	0			0			0		
	ST. CHARLES POWER		SCPS Combined					turbines and good combustion									
LA-0313	STATION	8/31/2016	Cycle Unit 1B	Natural Gas	3625	MMBTU/hr		practices	- 0			- 0			0		
							There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the flexible group FGCTGHRSG. The total hours for startup and shutdown for each train shall no exceed 500 hours per 12-month rolling time period.	t									
			FGCTGHRSG (2				The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each	Energy efficiency measures and the									
MI-0423	INDECK NILES, LLC	1/4/2017	Combined Cycle CTGs with HRSGs)	Natural oas	8322	MMBTU/H	duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains	use of a low carbon fuel (pipeline quality natural gas).	2097001	T/YR	12-MONTH ROLLING TIME PERIOD	3			0		
			FG-TURB/DB1-3 (3 combined cycle														
			combustion turbine and heat recovery				Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG) trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped with dry low NOx										
	NEW COVERT		steam generator				combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fired duct	Several energy efficiency measures			EACH CT/HRSG TRAIN; 12	-		EACH CT/HRSG TRAIN; 12			
*MI-0432	GENERATING FACILITY	7/30/2018		Natural gas	1230	MW	burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	and the use of natural gas.	1425081	T/YR	MO. ROLL TIME PER	7978	BTU/KW-H	MO ROLL AVG	0		
			EUCTGHRSG (South Plant): A combined cycle natural gas-fired				A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080										
			combustion turbine generator with heat				MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The	Energy efficiency measures and the									
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	recovery steam	Natural gas	500	MW	HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	use of a low carbon fuel (pipeline quality natural gas).	1978297	TAVE	12-MO ROLLING TIME PERIOD	904	LB/MW-H	12-OPERATING MONTH ROLL AVG BASIS			
WII-0433	MEC SOUTH LEC	6/29/2018	generator.	i vaturai gas	500	INI W	with dry low NOx burner (DLNB), SCR and an oxidation catalyst. Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and	quanty natural gas).	19/8297	1/1K	LEGOD	806	LD/WW-H	ROLL AVO BASIS	0		
			EUCTGHRSG (North Plant): A				Nominal 300 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV). A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery										
			combined-cycle natural gas-fired combustion turbine				steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMRTU/hr (HHV). The HRSG is equipped with a natural case-fixed duct burner rated at 755										
	MEC NORTH, LLC AND		generator with heat recovery steam				MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not canable of operating independently from the CTG. The CTG/HRSG is equipped	Energy efficiency measures and the use of a low carbon fuel (nineline			12-MO ROLL TIME			12- OPERATING MONTH			
*MI-0433	MEC SOUTH LLC	6/29/2018		Natural gas	500	MW	with dry low NOx burner (DLNB), SCR, and an oxidation catalyst. Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat	quality natural gas).	1978297	T/YR	PERIOD PERIOD	806	LB/MWH	ROLL AVG	0		
			FGCTGHRSG				recovery steam generator (CTGHRSG). Plant nominal 1.150 MW electricity production. Turbines are each rated at 3.658										
	BELLE RIVER COMBINED		(EUCTGHRSG1 &				MMBTU/H and HRSG duct burners are each rated at 800 MMBTU/H.				12-MO ROLLING TIME			12-OPER MO ROLL AVG;			
°MI-0435	CYCLE POWER PLANT	7/16/2018	EUCTGHRSG2) Combined Cycle	Natural gas	0		The HRSGs are not capable of operating independently from the CTGs.	Energy efficiency measures	2042773	T/YR	PERIOD; EACH UNIT	794	LB/MW-H	EACH UNIT	0		
			Combustion Turbine firing														
	MIDDLESEX ENERGY		Natural Gas with					USE OS NATURAL GAS A			BASED ON CONSECUTIVE						
NJ-0085	CENTER, LLC TENASKA PA	7/19/2016	Duct Burner	natural gas	4000	h/yr		CLEAN BURNING FUEL	888	LB/MW-H	12 MONTH ROLLING	0			0		
*PA-0306	PARTNERS/WESTMORELA ND GEN FAC	2/12/2016	Large combustion turbine	Natural Gas			This process entry is for operations with the duct burner. Limits entered are for each turbine. Emission limits are for each turbine operating with duct burner and do not include	Good combustion practices	1881905	TPY					0		
171 0300	THE GENT THE	2122010	- Caronic	- Auturu Ous			startun/shutdown emissions. Tons, nor year limits is a cumulative value for all three CCCT	Good combasion practices	1001505						Ĭ		
							CEMS for NOx, CO, and O2. Fach CCCT and duct humer have 5 operational scenarios:										
							1 CCCT with duct burner fired - fueled by NG only										
			Combustion turbine and HRSG with	1			2 CCCT with duct burner fired - fueled by NG blend with ethane 3 CCCT without duct burner fired - fueled by NG only										
*PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	duct burner NG only	Natural Gas	3338	MMBtu/hr	4 CCCT without duct burner fired - fueled by NG blend with ethane 5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)	low sulfur fuel and good combustion practices	3352086	TONS	12-MONTH ROLLING BASIS	0			0		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Natural Gas-Fired Combustion		3330		Turbine throughput is 1019 7 MMRtu/hr when huming natural gas and 1083 7 MMRtu/hr										
TNI OLGO	JOHNSONVILLE	4707	Turbine with	Natural Gas		MMRtu/hr	turbine throughput is 1019.7 mm/blum when burning natural gas and 1063.7 mm/blum when burning No. 2 oil. Duct burner throughput is 319.3 MMBtu/hr. Duct burner firing will occur during natural gas combustion only.	Good combustion design and	10	I.B/MWH	12-MONTH MOVING				_		
TN-0162	COGENERATION	4/19/2016	Combined Cycle	inaturai Gas	1339	MMBtwhr	occur during natural gas combustion only.	practices	1800	LB/MWH	AVERAGE	- 0			0		
			& Cogeneration (>														
TX-0791	ROCKWOOD ENERGY CENTER	3/18/2016	25 megawatts (MW))	natural gas	889	MW	(2) GE 7HA.01 in a 2x1 configuration and a 872 million British thermal units per hour (MMBtu/hr) duct burner	Good combustion practices	901	LB/MWH		0			0		
			Combined Cycle & Combined Cycle														
TX-0791	ROCKWOOD ENERGY CENTER	2/18/2016	Cogeneration (>	natural gas	1127	MW	(2) CE 7HA 02 in a 2v1 configuration and a 995 MMProfest dust huma-	Good combustion practices	0/5	I.B/MWH							
1.A-0/91	CENTER	3/18/2016	Combined Cycle	naturai gas	1127	INI W	(2) GE 7HA.02 in a 2x1 configuration and a 985 MMBtu/hr duct burner	Good compusion practices	863	LD/MWII		- 0			0		
	ROCKWOOD ENERGY		& Cogeneration (>														
TX-0791	CENTER	3/18/2016	25 MW) Combined Cycle	natural gas	748	MW	(2) GE 7FA.05 in a 2x1 configuration and a 826 MMBtu/hr duct burner	Good combustion practices	944	LB/MWH		0		+	0		
	ROCKWOOD ENERGY		& Cogeneration (>														
TX-0791	CENTER	3/18/2016	25 MW) Combined Cycle	natural gas	889	MW	(2) MHI 501GAC in a 2x1 configuration and a 221 MMBtu/hr duct burner	good combustion practices	929	LB/MWH		0		1	0		
			&														
TX-0791	ROCKWOOD ENERGY CENTER	3/18/2016		natural gas	889	MW	(2) MHI 501GAC in (2) 1x1 configurations and a 221 MMBtu/hr duct burner	good combustion practices	929	LB/MWH		0			0		
			Combined Cycle & Comp;														
TX-0791	ROCKWOOD ENERGY CENTER	3/18/2016	Cogeneration (> 25 MW)	natural gas	015	MW	(2) Siemens SCC6-8000H(1.4) in a 2x1 configuration and a 326 MMBtu/hr duct burner	good combustion practices	965	LB/MWH					0		
2,750,71		3/16/2016	Combined Cycle Turbine with Heat	даз	913		2.50 visitions and the companion and a 520 visitions and the companion of	padences	763			1			0		
			Recovery Steam														
			Generator, fired Duct Burners, and														
TX-0819	GAINES COUNTY POWER PLANT	4/28/2017	Steam Turbine Generator	NATURAL GAS	426	MW	Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam Turbine Generators	Pipeline quality natural gas	960	LB / MW H		0			0		
	•		•	-							•					•	

		PERMIT ISSUANCE		PRIMARY				CONTROL METHOD	EMISSION			EMISSIO			STANDARAD EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	AVG TIME CONDITION	N LIMIT 2	UNIT	AVG TIME CONDITION	LIMIT	UNIT	CONDITION
	HARRISON COUNTY		GE 7HA.02				Nominal 640 mWe All emission limits steady-state and include 1000 mmBtu/hr Duct Burner in operation										
*WV-0029	POWER PLANT	3/27/2018	Turbine	Natural Gas	3496.2	mmBtu/hr	Short Term startup and shutdown limits in lb/event given in permit. 500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr	Use of Natural Gas, Model GE7HA	528543	LB/HR		2315020	TONS/YEAR		826	LB/MW-HR	
anr	NRG ENERGY CENTER	10.01.001	UNIT 2- KD1			MMBTU/H	Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified		1005	LB/GROSS MWH	12 MONTH ROLLING						
*DE-0023	DOVER GARRISON ENERGY	10/31/2012	UNIT 2- KD1	Natural Gas			CEMS and COMS.	Fuel Usage Restriction to natural gas	1085		AVERAGE 12 MONTH ROLLING	0			0		
DE-0024	CENTER	1/30/2013	Unit 1	Natural Gas	2260	million BTUs		and low sulfur distillate fuel	1.01E+06	T/YR	AVERAGE	0			0		
*IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	Combustion turbine #2 -combined cycle	natural gas	2258	mmBtu/hr			1.32E+06	T/YR	12-MONTH ROLLING TOTAL	0			0		
			FOUR (4)				EACH TURBINE IS EQUIPED WITH DRY LOW NOX BURNERS, NATURAL GAS FIRED DUCT BURNERS, AND A HEAT RECOVERY STEAM GENERATOR										
			NATURAL GAS COMBINED				IDENTIFIED AS HRSG#. NOX EMISSIONS CONTROLLED BY SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR##) ALONG WITH CO AND VOC										
			CYCLE				EMISSSIONS CONTROLLED BY OXIDATION CATAYLST SYSTEMS (CAT##) IN										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	COMBUSTION TURBINES	NATURAL GAS	2300	MMBTU/H	EACH TURBINE. EACH STACK HAS CONTINUOUS EMISSIONS MONITORS FOR NOX AND CO. COMBINED NOMIAL POWER OUTPUT IS 1.350 MW.	HIGH THERMAL EFFICIENCY DESIGN	7646	BTU/KW-H		4.89E+06	TONS	12 CONSECUTIVE MONTH PERIOD	0		
			COGENERATION TRAINS 1-3 (1-10,				EACH COGEN TRAIN CONSISTS OF A 50 MW GE LM6000 PF SPRINT TURBINE AND A HEAT RECOVERY STEAM GENERATOR EQUIPPED WITH A 70 MM BTU/HR	USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION									
LA-0256	COGENERATION PLANT	12/6/2011	2-10, 3-10) Combined Cycle	NATURAL GAS	475	MMBTU/H	DUCT BURNER.	PRACTICES	55576.77	LB/H	HOURLY MAXIMUM	0			0		
	CARRIE BACCALVO		Refrigeration					Good combustion/operating practices									
LA-0257	SABINE PASS LNG TERMINAL	12/6/2011	Compressor Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4	and fueled by natural gas - use GE LM2500+G4 turbines	4.87E+06	T/YR	ANNUAL MAXIMUM FROM THE FACILITYWIDE	0			0		
			2 COMBINED-				TWO GENERAL ELECTRIC (GE) F-CLASS ADVANCED COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF										
			CYCLE COMBUSTION				725 MW, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION										
*MD-0041	CPV ST. CHARLES	4/23/2014	TURBINES	NATURAL GAS	725	MEGAWATT	CATALYST	CO2 CEMS EXCLUSIVE USE OF PIPELINE-	7605	BTU/KW-H	@ ISO CONDITIONS	57.4	% EFFICIENCY	@ ISO CONDITIONS	0		
			a compare				The Manual Control of the Control of	QUALITY NATURAL GAS, AND INSTALLATION OF HIGH-									
			2 COMBINED CYCLE				TWO MITSUBISHI ''G'Model COMBUSTION TURBINE GENERATORS (CTS) WITH A NOMINAL GENERATING CAPACITY OF 270 MW	EFFICIENCY CT MODEL									
	WILDCAT POINT		COMBUSTION TURBINES, WITH				CAPACITY EACH, COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX COMBUSTORS,	(MITSUBISHI ''''					BTU/KWH	AT ALL TIMES,			
*MD-0042	GENERATION FACILITY	4/8/2014	DUCT FIRING	NATURAL GAS	1000	MW	SELECTIVE CATALYTIC REDUCTION (SCR), OXIDATION CATALYST This is a combined-evele combustion turbine with a non-fired heat recovery steam generator	MODEL)	946	LB/MW-H	12-MONTH ROLLING	7500	(HEAT RATE)	EXCLUDING SU/SD	0		
			Combined cycle				(HRSG).				12-MONTH ROLLING						
*MI-0402	SUMPTER POWER PLANT	11/17/2011	combustion turbine w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG		954	LB/MW-H	12-MONTH ROLLING AVERAGE	0			0		
			Natural gas fueled combined cycle				Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam										
	MIDLAND COGENERATION		combustion turbine generators (CTG)				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected to one steam turbine generator. Each CTG is equpped with a dry low NOx (DLN) burner and	Good combustion practices and			12-MO. ROLLING						
°MI-0405	VENTURE VENTURE	4/23/2013	with HRSG	Natural gas	2237	MMBTU/H	a selective catalytic reduction (SCR) system.	energy efficiency.	995	LB/MW-H	AVERAGE	0			0		
							This process is permitted in a flexible group format, identified in the permit as FG-CTG/DB1-										
			Natural gas fueled				2 and is for two natural gas fired CTGs with each turbine containing a heat recovery steam generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected										
			combined cycle combustion turbine				to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a selective catalytic reduction (SCR) system. Additionally, the HRSG is operating with a										
	MIDLAND COGENERATION		generators (CTG) with HRSG and				natural gas fired duct burner for supplemental firing.	Good combustion practices and									
*MI-0405	VENTURE	4/23/2013	duct burner (DB)	Natural gas	2486	MMBTU/H	The throughput is 2,486 MMBTU/H for each CTG/DB. Natural gas fired CTG with DB for HRNG: 4 total.	energy efficiency	1071	LB/MW-H	12-MONTH ROLLING AVG	0			0		
							,										
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
			FGCCA or FGCCB				Permit was issued for either of two F Class turbine technologies with slight variations in emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG										
	THETFORD GENERATING		-4 nat. gas fired]			trains driving one steam turbine electrical generator; Two 2XI Blocks. Each CTG will be rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up				12-MO ROLL TIME PERIOD DETER EACH						
*MI-0410	STATION GENERATING	7/25/2013	CTG w/ DB for HRSG	natural gas	2587	MMBTU/H heat input, each CTG	rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up to 1,400 MW.		1.39E+06	T/YR	MONTH EACH	0			0		
							This process is identified in the permit as FGCTGHRSG; it is 2 combined cycle natural gas-										
			FG-CTGHRSG: 2				fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSGs) equipped with duct burners for supplemental firing (EUCTGHRSG1 & EUCTGHRSG2 in										
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		Combined cycle CTGs with HRSGs			MMBTU/H for each	FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period. Each CTGHRSG shall not exceed 647	Energy efficiency measures and the use of a low carbon fuel (pipeline			12-MO ROLL TIME						
*MI-0412	STREET	12/4/2013	with duct burners	natural gas	647	CTGHRSG	MMBtu/hr on a fuel heat input basis. This is a 427 MW Siemens Combined Cycle Turbine with duct burner	quality natural gas).	3.39E+05	T/YR	PERIOD PERIOD	0			0		
			Combined Cycle				Heat Input rate of the turbine = 2276 MMbtu/hr (HHV)										
	WEST DEPTFORD ENERGY	-	Combustion Turbine with Duct				Heat Input rate of the Duct burner= 777 MMbtu/hr(HHV)	Turbine efficiency and Use of			CONSECUTIVE 12 MONTH			CONSECUTIVE 12 MONTH			
*NJ-0082	STATION	7/18/2014	Burner	Natural Gas	20282	MMCF/YR	The fuel use of 20,282 MMCF/YR is for three turbines and three Duct burners. Two Siemens 2932 MMBtu/H combined cycle combustion turbines, both with 300 MMBtu/E	Natural gas a clean burning fuel	1.24E+06	T/YR	(ROLLING 1 MONTH)	947	LB/MW-H	(ROLLING 1 MONTH)	0		
			2 Combined Cycle Combustion				duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2 Mitsubishi, not both (not determined).										
	OREGON CLEAN ENERGY		Turbines-Siemens,			Lancor v	Short term limits are different with and without duct burners.	state-of-the-art high efficiency		l na				DED DOLLDIS			ann 11
*OH-0352	CENTER	6/18/2013	with duct burners 2 Combined Cycle	Natural Gas	51560	MMSCF/rolling 12-MO	Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines, both with 300	combustion technology	318404	LB/H		1.44E+06	1/YR	PER ROLLING 12-MONTHS	0		SEE NOTES
			Combustion Turbines-				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined).										
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Mitsubishi, with duct burners	Natural Gas	47017	MMSCF/rolling 12-MO	Short term limits are different with and without duct burners. This process with duct burners.	state-of-the-art high efficiency combustion technology	318404	I.B/H		1.39E+06	T/YR	PER ROLLING 12-MONTHS			SEE NOTES
		0.10/2013	Mitsuhishi M501-		4/51/	Tolling 12-WO	VMINA.	E CONTROL OF THE PARTY OF THE P	310404			1.552.100		I I I I I I I I I I I I I I I I I I I			
			GAC combustion				Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction These limits are for each of the 4 turbines individually, while operating with the duct burners										
	TROUTDALE ENERGY		turbine, combined cycle configuration				These limits are for each of the 4 turbines individually, while operating with the duct burners on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Thermal efficiency			365-DAY ROLLING						
*OR-0050	CENTER, LLC	3/5/2014	with duct burner.	natural gs	2988	MMBtu/hr	burners. Two combine cycle Turbines, each with a combustion turbine and heat recovery steam	Clean fuels	1000	LB/GROSS MWH	AVERAGE	0			0		
ı			Combined-cycle				generator with duct burner. Each combined-cycle process will be rated at 468 MW or less. The heat input rating of each combustion gas turbine is 2890 MMBtu/hr (HHV) or less, and										
DA 0270	MOXIE LIBERTY	1000	Turbines (2) -	Notes C		MARTINI	the heat input rating of each supplemental duct burner is equal to 387 MMBtu/hr (HHV) or	Cool contention	1.400	TAVD	468 MW BOWERPY OCT	1.200.00	TAVE	ASA MAN DONUMBRY CO.			
PA-0278	LLC/ASYLUM POWER PL T	10/10/2012	Natural gas fired	Natural Gas	3277	MMBTU/H	Jess.	Good combustion practices.	1.48E+06	11/YR	468 MW POWERBLOCK	1.39E+06	1/YR	454 MW POWERBLOCK	0		

															STANDARAD		
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSIO N LIMIT 2	UNIT	AVG TIME CONDITION	EMISSION LIMIT	UNIT	AVG TIME CONDITION
			Combined Cycle														
			Combustion Turbine AND				Three powerblocks consisting of three (3) natural gas fired F class combustion turbines										
*PA-0288	SUNBURY GENERATION LP/SUNBURY SES	4/1/2013	DUCT BURNER	Natural Gas	2528000	MMBTU/H	coupled with three (3) heat recovery steam generators (HSRGs) equipped with natural gas fired duct burners.		281727	I DAI	WHEN DUCT BURNERS OPERATING	298106	I D 41	WHEN DUCT BURNERS OPERATING			
*FA-0288	LP/SUNDUKT SES	4/1/2013	(3)	Naturai Gas	2338000	MMB1U/H	The Permittee shall select and install any of the turbine options listed below (or newer version	is	281/2/	LD/II	OPERATING	298100	LB/II	OPERATING	0		
							of these turbines if the Department determines that such newer versions achieve equivalent or better emissions rates										
							and exhaust parameters)										
							General Electric 7FA (GE 7FA) Siemens SGT6-5000F (Siemens F)										
			COMBINED				3. Mitsubishi M501G (Mitsubishi G)										
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	CYCLE UNITS #1 and #2	Natural Gas	3.4	MMCF/HR	Siemens SGT6-8000H (Siemens H) The emissions listed are for the Siemens SGT6-8000H unit.		3.67E+06	T/YR	12-MONTH ROLLING TOTAL FOR BOTH UNITS		,		0		
	BERKS HOLLOW ENERGY																
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Turbine, Combined Cycle, #1 and #2	Natural Gas	3046	MMBtu/hr	Equipped with SCR and Oxidation Catalyst		1.38E+06	T/YR		(0		
			COMBINED CYCLE TURBINE				Natural gas-fired GE 7FA combustion turbine unit, U1-STK. and is rated at Max. based-load										
	THOMAS C. FERGUSON		GENERATOR U1-	-			output of 195 MW and vented to a Heat Recovery Steam Generator(HRSG) that is equipped				30-DAY ROLLING			STARTUP AND			
TX-0612	POWER PLANT	11/10/201	STK	Natural Gas	1746	MMBTU/H	with a SCR and an Oxidation Catalyst(OC).	Good Combustion Practices	908957.6	LB/H	AVERAGE	153392.1	LB/H	SHUTDOWN (ONLY)	0		
								install efficient turbines, follow the turbine manufacturer's emission-									
								related written instructions for									
								maintenance activities including prescribed maintenance intervals to									
								assure good combustion and efficient									
			Refrigeration					operation. Compressors shall be inspected and maintained according									
ATT 0 (70	CORPUS CHRISTI	2/27/2015	Compressor	l.,	40000		There are three LNG trains. In total there are (6) GE LM2500+ DLE turbines driving the	to a written maintenance plan to	1.485.00		12-MONTH ROLLING						
*TX-0679	LIQUEFACTION PLANT	2/27/2013	Turbine Combustion	natural gas	40000	hp	compressors in the ethylene refrigeration sections.	maintain efficiency.	1.47E+05	T/YR	BASIS	-)		0		+
	AUSTIN ENERGY, SAND		Turbine with HRSG, Duct				GE 7FA.04				365-DAY ROLLING						
*TX-0743	HILL ENERGY CENTER	9/29/2014	Burners, and SCR	Natural Gas	7943	Btu/kWh (HHV, gross)	Gross Heat Rate is with and without duct burner firing and includes MSS. The plant will consist of four identical Alstom GT24 natural gas-fired CTGs. The CTGs will		930	LB/MW-H	AVERAGE	1.46E+06	TPY CO2E	365-DAY ROLLING TOTAL	0		
							The plant will consist of four identical Alstom GT24 natural gas-fired CTGs. The CTGs will burn pipeline quality natural gas to rotate an electrical generator to generate electricity. The										
							exhaust gas will exit the CTG and be routed to the heat recovery steam generator (HRSG) for										
							steam production. Steam produced by each of the two HRSGs will be routed to the steam turbine. The two CTGs and one steam turbine will be coupled to electric generators to produc	e									
							electricity for sale to the Electric Reliability Council of Texas (ERCOT) power grid. Each										
			Combined Cycle Combustion				CTG has an approximate maximum base-load electric power output of 230.7 MW. The maximum electric power output from each steam turbine is approximately 336 MW. The unit	s			APPLIES WITH OR						
*TX-0748	FGE POWER, FGE TEXAS PROJECT	420201	Turbine with DB,		200	D. 4111	may operate at reduced load to respond to changes in system power requirements and/or stability.		000	LB/GROSS MWH	WITHOUT DB; INCLUDES MSS		TON CO2/HR PER EVENT	MSS			
*1X-0/48	PROJECT	4/28/2014	HRSG and SCR	Natural Gas	/623	Btu/kWh	Stability.	Equipment specifications & work	885	LB/GROSS MWH	MSS	42	PEREVENI	MSS	0		+
	GOLDEN PASS LNG		Refrigeration					practices -									
*TX-0766	EXPORT TERMINAL	9/11/201:	Compression Turbines	natural gas	15.6	MMtpy	Six GE Frame 7 Turbines at site.	Good combustion practices and use of low carbon fuel	6.15E+05	T/YR		(0		
								Controlled by the use of low carbon									
	GATEWAY							fuels and high efficiency design. The									
VA-0319	COGENERATION 1, LLC - SMART WATER PROJECT	8/27/2013	COMBUSTION TURBINES, (2)	Natural Gas	593	MMBTU/H	Burns primarily natural gas but has the capacity to burn up to 500 hours of ultra low sulfur diesel fuel (ULSD) as backup.	heat rate shall be no greater than 8,983 Btu/kW-h (HHV, gross).	2.96E+05	T/YR	12 MO ROLLING AVG	1050	LB/MWH	12 MO AVERAGE	0		
		527201	COMBUSTION TURBINE						20,000			1000			Ĭ		
	BRUNSWICK COUNTY		GENERATORS,				Three (3) Mitsubishi M501 GAC combustion turbine generators with HRSG duct burners	Energy efficient combustion practices	s								
*VA-0321	POWER STATION	3/12/2013	(3)	Natural Gas	3442	MMBTU/H	(natural gas-fired). This entry is for both of two identical units at the facility.	and low GHG fuels.	7500	BTU/KW-H		-			0		+
			Combined Cycle				,										
*WV-0025	MOUNDSVILLE COMBINED CYCLE POWER PLANT	11/21/2014	Turbine/Duct Burner	Natural Gas	2419.61	mmBtu/Hr	Nominal 197 mW General Electric Frame 7FA.04 Turbine w/ Duct Burner - throughput denotes aggregate heat input of turbine and duct burner (HHV).	Use of GE Frame 7EA CT Low Carbon Fuel	272556	I.B/H		701	LB/MW/H		0		
		11/21/201	Combustion				many and the state of the state							İ.,			
	Kalama Energy Center Gibson County Generation,		Turbine Combustion	Natural Gas	2247	MMBtu/hr			858	LB/MW-H	12-mo rolling average	1.20E+06	tpy	12-mo rolling total			+
	LLC		Turbine Combustion	Natural Gas	417	MW			1.68E+06	T/YR		-		Not to exceed within 180 days			
	Pioneer Valley Energy Center		Turbine	Natural Gas	2016	MMBtu/hr			825	LB/MW-H				during startup			
	Pioneer Valley Energy Center		Combustion Turbine	Natural Gas	2014	MMBtu/hr			904	LB/MW-H				Not to exceed following 365 days after startup.			
			Combustion											panys after stattup.			
<u> </u>	Tenaska Partners LLC Huntington Beach Energy		Turbine Combustion	Natural Gas	3147	MMBtu/hr			876	LB/MW-H		1.88E+06	tpy				+
	Project		Turbine	Natural Gas	939	MW (net)			0.479	MTCO2/MWh							
-	York Energy Center Block 2 Shell Chemical	6/15/2015			2512.5	MMBtu/hr	firing NG with duct burner		880	LB/MW-H		1					+
	Appalachia/Petrochemicals	6/18/2015				MMBtu/hr	combustion turbines with duct burners		1000	LB/MW-H	20 4						
	Complex	6/18/2013	1	1	664	INIMISTURE	combustion turbines with duct burners	_L	1030	LD/MW-H	30-day rolling average	1					1

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT	UNIT	12-MONTH	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	KILLINGLY ENERGY		Natural Gas w/o								ROLLING (NET PLANT, GAS			(NET GAS			
CT-0161	CENTER	6/30/2017	Duct Firing	Natural Gas	296	MMBtu/hr	Throughput is for turbine only	Use of low carbon fuel	7273	BTU/KW-HR	ONLY)	81	LB/MW-HR	ONLY))	
			Combined-cycle				3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total				FOR GAS			FOR ULSD			
FL-0356	OKEECHOBEE CLEAN		electric generating			l	unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas.	Use of low-emitting fuels and		I.R/MWH	OPERATION, 12-		I.R/MWH	OPERATION, 12	-		
FL-0356	ENERGY CENTER	3/9/2016	FGCTGHRSG (2	Natural gas	309	MMBtu/hr per turbine	Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	technologies	850	LB/MWH	MO ROLLING	1210	LB/MWH	MO ROLLING	1 ')	
			Combined cycle CTGs with HRSGs:				Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat										
	HOLLAND BOARD OF		EUCTGHRSG10				recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG).	Energy efficiency measures and the use of	f		12-MO. ROLLING	i					
MI-0424	PUBLIC WORKS - EAST 5TH STREET		& EUCTGHRSG11)	Natural gas	550	MMBTU/H, each	The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period.	a low carbon fuel (pipeline quality natura	312321	T/YR	TIME PERIOD; EACH EU.	l .)		1 .		
			EUCCT (Combined cycle CTG with					Energy efficiency measures and the use of	f		12- MO.ROLL.TIME						
MI-0427	FILER CITY STATION	11/17/2017	unfired HRSG)	Natural gas	1934.	MMBTU/H	A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG).	a low carbon fuel (pipeline quality natura gas).	992286	T/YR	PERIOD))	
			Combined Cycle								BASED ON CONSECUTIVE						
	MIDDLESEX ENERGY		Combustion Turbine firing Natural Gas					USE OF NATURAL GAS A CLEAN			12 MONTH						
NJ-0085	CENTER, LLC	7/19/2016	without Duct Burner	Natural Gas	804	H/YR		BURNING FUEL	888	LB/MW-H	ROLLING)		-		
	TRINIDAD GENERATING		Combined Cycle														
TX-0787	FACILITY	3/1/2016	& amp; Cogeneration	natural gas	49	MW		Good Combustion Practices	937	LB/MW HR		-)		+ ()	
			Combined Cycle				2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW										
TX-0788	NECHES STATION	3/24/2016	& Cogeneration	natural gas	23	MW	(GE) Simple cycle operations limited to 2,500 hr/yr.	GOOD COMBUSTION PRACTICES Equipment specifications & work	924	LB/MWH)		+ '		
	PORT ARTHUR LNG		Refrigeration Compression					practices - Good combustion practices and use of									
TX-0790	EXPORT TERMINAL	2/17/2016	Turbines	natural gas	10	M TONNES/YR	Four GE Frame 7E gas turbines for refrigeration and compression at the site	low carbon fuel	504517	T/YR)		1)	
			Simple Cycle Electrical					Equipment specifications & work practices -									
	PORT ARTHUR LNG		Generation Gas					Good combustion practices and use of									
TX-0790	EXPORT TERMINAL		Turbines 15.210	natural gas	3	MW	Nine GE PGT25+G4 gas turbines for electrical generation at the site at 34 MW/turbine	low carbon, low sulfur fuel	156912	I/YK		106	LB/MW		+ '	1	
TX-0805	EAGLE MOUNTAIN STEAM	7/19/2016	Combined Cycle	notural and	46	MW		Good Combustion Practices	917	LB/MW H		l .			Ι,	,	
17-0902	ELECTRIC STATION DECORDOVA STEAM	//19/2010	& Combined Cycle	naturai gas	40.	IVI W			717	LD/MW II			,		<u> </u>	1	
TX-0810	ELECTRIC STATION (DECORDOVA STATION)	10/4/2016	and Cogeneration (>25 MW)	natural gas	21:	MW	Two turbine options: GE 7FA [210 megawatts (MW)] or Siemens 5000F (231MW)	good combustion practices and firing low carbon fuel.	966	LB/MW H					1 .	,	
	CHOCOLATE BAYOU STEAM GENERATING		Combined Cycle	NATURAL.													
TX-0817	(CBSG) STATION	2/17/2017	Cogeneration	GAS	51	MW	2 UNITS EACH 50 MW GE LM6000		1000	LB/MW H))	
	MONTGOMERY COUNTY		Combined Cycle	NATURAL				PIPELINE QUALITY NATURAL GAS,									
*TX-0834	POWER STATIOIN	3/30/2018	Turbine	GAS	263:	MMBTU/HR/UNIT	Two Mitsubishi M501GAC turbines (without fast start)	GOOD COMBUSTION PRACTICES	884	LB/MWH))	
								minimizing duration of startup / shutdowr	1								
			COMBINED					events, engaging the pollution control equipment as soon as practicable (based									
			CYCLE TURBINE					on vendor recommendations and									
*TX-0834	MONTGOMERY COUNTY POWER STATIOIN	3/30/2018	MSS REDUCED LOAD	NATURAL GAS			9 HOURS STARTUP, 1 HOUR SHUTDOWN	guarantees), and meeting the emissions limits on the MAERT	223	TON/H		l .			1 .	,	
	NRG ENERGY CENTER						500 MMBTU/hr Gas Turbine (Model: GE LM6000) rated at 52 MW and 155 MMBTU/hr				12 MONTH						
*DE-0023	DOVER DOVER	10/31/2012	UNIT 2- KD1	Natural Gas	65:	MMBTU/H	Heat Recovery Steam Generator rated at 18 MW. The unit is required to operate a certified CEMS and COMS.		1,085.0	LB/GROSS MWH	ROLLING AVERAGE 12 MONTH	0.00E+0)			,	
	GARRISON ENERGY							Fuel Usage Restriction to natural gas and			12 MONTH ROLLING						
DE-0024	CENTER	1/30/2013	Unit l	Natural Gas	226	million BTUs		low sulfur distillate fuel	1,006,304.0	TONS	AVERAGE	0.00E+0))	
	MARSHALLTOWN		Combustion turbine				two identical Siemens SGT6-5000F combined cycle turbines without duct firing, each at 2258				12-MONTH						
*IA-0107	GENERATING STATION	4/14/2014	#1 - combined cycle	natural gas	225	mmBtu/hr	mmBtu/hr generating approx. 300 MW each.		1,318,647.0	TON/YR	ROLLING ANNUAL	0.00E+0)		-)	
			Combined Cycle Refrigeration					Good combustion/operating practices and			MAXIMUM						
LA-0257	SABINE PASS LNG TERMINAL	12/6/2011	Compressor Turbines (8)	natural gas	286	MMBTU/H	GE LM2500+G4	fueled by natural gas - use GE LM2500+G4 turbines	4 872 107 0	TONS/YEAR	FROM THE FACILITY WIDE	0.00E+0)		1 .		
							This is a combined-cycle combustion turbine with a non-fired heat recovery steam generator (HRSG).		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		12-MONTH						
			Combined cycle combustion turbine								ROLLING						
*MI-0402	SUMPTER POWER PLANT	11/17/2011	w/ HRSG	Natural gas	130	MW electrical output	Natural gas-fired combustion turbine conversion to combined-cycle. Throughput is 2,237 MMBTU/H for each CTG		954.0	LB/MW-H	AVERAGE	0.00E+0)		1		
			Natural gas fueled combined cycle				Equipment is permitted as following flexible group (FG): FG-CTG1-2: Two natural gas fired CTGs with each turbine containing a heat recovery steam										
	MIDLAND COGENERATION		combustion turbine				generator (HRSG) to operate in combined cycle. The two CTGs (with HRSG) are connected	Cood contration and the cool			12-MO ROLLING						
*MI-0405	MIDLAND COGENERATION VENTURE	4/23/2013	generators (CTG) with HRSG	Natural gas	223	MMBTU/H	to one steam turbine generator. Each CTG is equipped with a dry low NOx (DLN) burner and a selective catalytic reduction (SCR) system. Natural gas fred CTG with DB for HRSG; 4 total.	Good combustion practices and energy efficiency.	995.0	LB/MW-H	12-MO. ROLLING AVERAGE	0.00E+0)				
							Technology A (4 total) is 2587 MMBTU/H design heat input each CTG.										
							Technology B (4 total) is 2688 MMBTU/H design heat input each CTG.										
							Permit was issued for either of two F Class turbine technologies with slight variations in										
							emission rates. Applicant will select one technology. Installation is two separate CTG/HRSG				12-MO ROLL						
	THETFORD GENERATING		FGCCA or FGCCB- 4 nat. gas fired CTG	1		MMBTU/H heat input,	trains driving one steam turbine electrical generator; Two 2X1 Blocks. Each CTG will be rated at 211 to 230 MW (gross) output and the station nominal generating capacity will be up				TIME PERIOD DETER EACH						
*MI-0410	STATION	7/25/2013	w/ DB for HRSG	natural gas	258	each CTG	Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300		1,386,286.0	T/YR	MONTH	0.00E+0		-	1		
			2 Combined Cycle				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will										
	OREGON CLEAN ENERGY		Combustion Turbines-Siemens,			MMSCF/rolling 12-	install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.	state-of-the-art high efficiency						PER ROLLING 1	,]		
*OH-0352	CENTER CENTER OF	6/18/2013	without duct burners	Natural Gas	51560	months	This process without duct burners.	combustion technology	318,404.0	LB/H		1.44E+0	T/YR	MONTHS	840	LB/MW-H	GROSS OUTPUT
							Two Mitsubishi 2932 MMBtu/H combined cycle combustion turbines , both with 300										
			2 Combined Cycle Combustion				MMBtu/H duct burners, with dry low NOx combustors, SCR, and catalytic oxidizer. Will install either 2 Siemens or 2Mitsubishi, not both (not determined).										
	1	1	Compusion	1		1	Install either 2 Siemens or 2Mitsubishi, not both (not determined). Short term limits are different with and without duct burners.	state-of-the-art high efficiency			1	1	1	PER ROLLING 1	,	1	1
*OH-0352	OREGON CLEAN ENERGY CENTER	1	Turbines-Mitsubishi, without duct burners	1		1	This process without duct burners.	combustion technology	318,404.0			1.39E+0	1	MONTHS	-1	1	SEE NOTES

		IPERMIT ISSUANCE		PRIMARY				CONTROL METHOD	IEMISSION		AVG TIME	EMISSION		AVGTIME	ISTANDARAD	$\overline{}$	IAVG TIME
RBLCID		DATE	PROCESS NAME		THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
				Ī			The Permittee shall select and install any of the turbine options listed below (or newer versions		Ì		Ì	Ì	i e	i	i i	†	$\overline{}$
		1					of these turbines if the										
		1					Department determines that such newer versions achieve equivalent or better emissions rates										
		1					and exhaust parameters)										
		1					General Electric 7FA (GE 7FA)										
		1	COMBINED				2. Siemens SGT6-5000F (Siemens F)				12-MONTH						
	HICKORY RUN ENERGY	1	CYCLE UNITS #1				Mitsubishi M501G (Mitsubishi G) Siemens SGT6-8000H (Siemens H)				ROLLING TOTAL FOR						
*PA-0291	STATION	4/23/2013	and #2	Natural Gas	2.4	MMCF/HR	The emissions listed are for the Siemens SGT6-8000H unit.		3,665,974.0	TDV	BOTH UNITS	0.00E+00			l ,	0	
1 A-0291	BERKS HOLLOW ENERGY	4/23/2013	Turbine, Combined	Naturai Gas		WINCITIK	The emissions fixed are for the stemens 3G10-800011 unit.		3,003,974.0		BOTHUMIS	0.002.100	1		· · · · ·	4	+
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Cycle, #1 and #2	Natural Gas	3046	MMBtu/hr	Equipped with SCR and Oxidation Catalyst		1,380,899.0	T/YR		0.00E+00)		1 .	0	
			COMBINED														
		1	CYCLE TURBINE				Natural gas-fired GE 7FA combustion turbine unit, U1-STK. and is rated at Max. based-load				30-DAY			STARTUP AND			
	THOMAS C. FERGUSON	1	GENERATOR U1-				output of 195 MW and vented to a Heat Recovery Steam Generator(HRSG) that is equipped				ROLLING			SHUTDOWN			
TX-0612	POWER PLANT	11/10/2011	STK	Natural Gas	1746	MMBTU/H	with a SCR and an Oxidation Catalyst(OC).	Good Combustion Practices install efficient turbines follow the	908,957.6	LB/H	AVERAGE	1.53E+05	LB/H	(ONLY)	-	0	
		1						turbine manufacturer's emission-									
		1						related written instructions for									
				1				maintenance activities including	1	1		1	1		1		
								prescribed maintenance intervals to					1				
								assure good combustion and efficient					1				
		1		1				operation. Compressors shall be	1	1	1	1	1	1			
								inspected and maintained according to a					1				
ATT 0 CT0	CORPUS CHRISTI		Refrigeration	l		J.	There are three LNG trains. In total there are (6) GE LM2500+ DLE turbines driving the	written maintenance plan to maintain	1465	TRUE	12-MONTH				1 .		
*TX-0679	LIQUEFACTION PLANT	2/27/2015	Compressor Turbine	natural gas	40000	hp	compressors in the ethylene refrigeration sections. The plant will consist of four identical Alstom GT24 natural gas-fired CTGs. The CTGs will	efficiency.	146,754.0	IPY	ROLLING BASIS	0.00E+00)		-	0	+
		1					burn pipeline quality natural gas to rotate an electrical generator to generate electricity. The										
		1					exhaust gas will exit the CTG and be routed to the heat recovery steam generator (HRSG) for										
		1					steam production. Steam produced by each of the two HRSGs will be routed to the steam										
		1					turbine. The two CTGs and one steam turbine will be coupled to electric generators to produce										
		1					electricity for sale to the Electric Reliability Council of Texas (ERCOT) power grid. Each										
		1	Combined Cycle				CTG has an approximate maximum base-load electric power output of 230.7 MW. The				APPLIES WITH						
		1	Combustion Turbine				maximum electric power output from each steam turbine is approximately 336 MW. The units				OR WITHOUT						
	FGE POWER, FGE TEXAS PROJECT	4/28/2014	with DB, HRSG and				may operate at reduced load to respond to changes in system power requirements and/or stability			LB CO2/MWH, GROSS	DB; INCLUDES MSS		TON CO2/HR PER EVENT	MSS		_	
*TX-0748	PROJECT	4/28/2014	SCR	Natural Gas	7625	Btu/kWh	stability.	Equipment specifications & work	889.0	GROSS	MSS	4.80E+0	PER EVENT	MSS	+	1	+
		1	Refrigeration					practices -									
	GOLDEN PASS LNG	1	Compression					Good combustion practices and use of									
*TX-0766	EXPORT TERMINAL	9/11/2015	Turbines	natural gas	15.6	MMtpy	Six GE Frame 7 Turbines at site.	low carbon fuel	614,533.0	TPY		0.00E+00)		(0	
								Controlled by the use of low carbon fuels									
	GATEWAY	1						and high efficiency design. The heat rate									
	COGENERATION 1, LLC -		COMBUSTION				Burns primarily natural gas but has the capacity to burn up to 500 hours of ultra low sulfur	shall be no greater than 8,983 Btu/kW-h			12 MO ROLLING			12 MO	I .		
VA-0319	SMART WATER PROJECT	8/27/2012	TURBINES, (2)	Natural Gas	593	MMBTU/H	diesel fuel (ULSD) as backup. Four GE 7FA combined cycle turbines, dry low NOx burners and selective catalytic reduction.	(HHV, gross).	295,961.0	I/YR	AVG	1.05E+0;	LB/MWH	AVERAGE	-	J .	+
		1	COMBUSTION				These limits are for each of the 4 turbines individually, while operating with the duct burners										
	BRUNSWICK COUNTY		TURBINE				on. This permit is a modification to RBLC OH-0252 to remove hourly restrictions on duct	Energy efficient combustion practices and					1				
*VA-0321	POWER STATION	3/12/2013	GENERATORS, (3)	Natural Gas	3442	MMBTU/H	burners.	low GHG fuels.	7,500.0	BTU/KW-H			0		1 0	0	
	Footprint Power Salem Harbor													365 day rolling			
	Development LP		Combustion Turbine	Natural Gas	346	MW			825.0	lb/MW-hr	Duct Burners Off	8.95E+02	lb/MW-hr	average	1		
	L			l					l .	L	12-mo rolling	l	.1	I	.1		
	Kalama Energy Center Gibson County Generation,		Combustion Turbine	Natural Gas	2247	MMBtu/hr			858.0	lb/Mwhe	average	1.20E+0	tpy	12-mo rolling tota	4	+	+
	LLC		Combustion Turbine	Natural Gas	415	MW			1,679,459.0	tow		1	1		1		
	LLC		Comoustion Turbine	ivatural Gas	41/	IVI VV			1,079,439.0	upy				Not to exceed		+	+
		1		1					1	1	1	1	1	within 180 days			
	Pioneer Valley Energy Center		Combustion Turbine	Natural Gas	2016	MMBtu/hr			825.0	lb/MWh				during startup			
											1		1	1			
													1	Not to exceed			
	L	1	L	l		l				L	1	1	1	following 365 day	S		
	Pioneer Valley Energy Center		Combustion Turbine	Natural Gas	2016	MMBtu/hr			895.0	lb/MWh	+	 		after startup.	+	+	+
	Russell City Energy Company,	1	Combustion Turbine	Natural Gas	2029 6	MMBtu/hr			242.0	metric tons/hr	1	5 90E±0	metric tons/day	1			
	Russell City Energy Company,		Combustion Turbine	ivaturai Gas	2038.6	INTRACTOR			242.0	metric tons/iif	 	3.80E±0;	metric tons/day	+	+	+	+
	ILC	1	Combustion Turbine	Natural Gas	2038 6	MMBtu/hr			7 730 0	Btu/kWhr	1	1	1	1			
				- Lunin Gus	2038.0				7,730.0		1	1	1	1	1	1	
	Tenaska Partners LLC		Combustion Turbine	Natural Gas	3147	MMBtu/hr			876.0	lb/MWh		1.88E+0e	5 tpy				
	Huntington Beach Energy																
	Project	,,,,,,,,	Combustion Turbine	Natural Gas		MW (net)	[MTCO2/MWh	ļ	1	1		1	+	+
	York Energy Center Block 2	6/15/2015	1		2512.5	MMBtu/hr	firing NG without duct burner		880.0	lb/MW-hr			1				

March Marc	RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
Company Comp		OKEECHOBEE CLEAN		Auxiliary Boiler,	TRESCRET TOLL							CONDITION	Lavara 2	0.111	COMBINA	E-HE-OIO-II-E-HII	0.111	COMPINION
Control Cont	FL-0356	ENERGY CENTER	3/9/2016	99.8 MMBtu/hr	Natural gas	99.	8 MMBtu/hr	Fires only natural gas. Limited to 2000 hr/yr.	Low-NOx burners	0.05	LB/MMBTU		0			(-	
Company				AUXILIARY														
March Marc		A CONTROL PRODUCTION										4 1101 m			norrano.			
Part Part	IN-0263		3/23/2017		NATURAL GAS	218.	6 MMBTU/H			20.4	LB/MMCF EACH		1877.39			(
March Marc												30 ROLLING						
March Marc		LAKE CHAPLES		Auvilian Boiler and				Sumlement firel: firel ese				AVG., EXCEPT						
Company		METHANOL FACILITY		Superheaters	Natural Gas		0	Boilers: 225 MM BTU/hr each	SCR	0.015	LBS/MM BTU		0			(
Marie Confession Marie Confe	LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Auxiliary boilers	natural gas	17	1 mm btu/hr		Low Nox burners	0			0			(
March Marc		DTE GAS COMPANY-																
March Marc								identified as EUAUXBOIL2 and EUAUXBOIL3 within the flexible group FGAUXBOILERS.		l								
March Marc	MI-0420	STATION	6/3/2016	FGAUXBOILERS	Natural gas		6 MMBTU/H	The boilers are subject to 40 CFR Part 63 Subpart DDDDD, which requires tune ups.	combustion practices.	14	PPMVOL	PROTOCOL 30 DAY ROLLING	0			(1	
March Marc									Low NOx burners/Flue gas recirculation			AVG TIME						
Mary Name	MI-0423	INDECK NILES, LLC	1/4/2017	(Auxiliary Boiler)	natural gas	18	2 MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fuel heat input.	and good combustion practices.	0.04	LB/MMBTU	PERIOD	0			(-	
March 1995									Low NOx burners/Internal flue gas			TEST PROTOCOL						
Part Part		PUBLIC WORKS - EAST 5TH		EUAUXBOILER					recirculation and good combustion									
A	MI-0424	STREET	12/5/2016	(Auxiliary boiler) FGAUXBOILERS	natural gas	83.	5 MMBTU/H	One natural gas fired auxiliary boiler rated at 83.5 MMBTU/hr fuel heat input (EUAUXBOILER).	practices.	0.05	LB/MMBTU	AVG TIME	0		1	(1	
Property of the content of the con				(6 auxiliary boilers														
Controlled Con				EUAUXBOIL2A,				Four notions one fined overlient horizon, each extent at 2 MARTIL/H finel host insent										
Control Cont								(EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B and EUAUXBOIL3B in										
According 1,400				EUAUXBOIL3B,				FGAUXBOILERS) and two natural gas-fired auxiliary boilers, each rated at 1 MMBTU/H fuel										
## CAPACITICATIONS S.C. S.	NEI 0427	MILFORD COMPRESSOR	2/24/2017	EUAUXBOIL2C,	N		2 AD ADTUAL	heat input (EUAUXBOIL2C and EUAUXBOIL3C in FGAUXBOILERS). The boilers are			DDM 4 T 28/ 02			DDM 4 T 20/ 02		,		
## CAPACITICATIONS S.C. S.	M1-0426	STATION	3/24/2017		Natural gas		3 MMBTU/H	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	combustion practices.	20	PPM A1 3% O2		9	PPM A1 3% O2	BOILER	-		
ACTUAL A								CTGHRSG train and to provide the required steam to support the startup of the facility, including										
## CASHILLA NAME Declaration of the Company of th	*MI_0433		6/20/2019		Natural res	41	S MMRTI/H			0.04	I R/MMRTII				1		J	
## CASHILLA NAME Declaration of the Company of th	MI-0433	SOUTHEEC	0.29/2018		ivaturar gas	01.	J MIMID I COLI	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	and good combustion practices.	0.04	LISMINIDIO					,		
March Marc								CTGHRSG train and to provide the required steam to support the startup of the facility, including										
March Marc	*MI-0433	SOUTH LLC	6/29/2018		Natural oas	61	S MMRTU/h	but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low NOx humers (LNR) and flue ons recirculation (FGR)	and good combustion practices	0.04	LR/MMRTU		0			(
March Marc				,														
Proc. Proc		DELLE BRIER COMBRED		ELIALIVIDOREED.														
MORE DATE OF THE PROPERTY OF T	*MI-0435		7/16/2018		Natural gas	99.	9 MMBTU/H	is equipped with low NOx burners (LNB) and flue gas recirculation (FGR).	Low NOx burners/Flue gas recirculation.	0.036	LB/MMBTU	HOURLY	3.6	LB/H	HOURLY	(
CANON PRINCES Prince Pri																		
MORNING 1,500 200	*WV-0029	POWER PLANT	3/27/2018		Natural Gas	77.	8 mmBtu/hr	Annual emission based on 4600 hours/year.	LNB, FGR, Good Combustion Practices	0.86		2 UD AVG @ 15	1.96	TONS/YEAR		0.0011	LB/MMBTU	
Column C	*AK-0083		1/6/2015	Boilers	Natural Gas	5	0 MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.	Selective Catalytic Reduction	7	02		0			(
Month Mont				3 NATURAL GAS-					THE PART OF THE PA									
MINISTRATION PRINTED				WITH ULNR					RURNERS (ULTRA-LOW NOX									
ACTION NOTE PERSON NOTE				& EGR (537-					RECIRCULATION (EGR) Å¿ SAME									
MORNE STELL AND AND REPORT STELL AND AN	AL-0230	AND STAINLESS USA, LLC	8/17/2007	539)	NATURAL GAS	64.	9 MMBTU each	THIS PROCESS IS COVERED UNDER 503-0095-X026.	FLUE GAS RECIRCULATION (FGR)	0.035	LB/MMBTU		2.27	LB/H		(-	
AGEN NOW RECENTRAL CO. 41700 WELLS NO. 1714 ALGO. DIA MINITEDIA CO. 1714 ALGO. DIA MINISTERIA CO. 1714 ALGO. DIA MINISTERIA CO. 1714 ALGO. DIA MINISTERIA CO. 1714 ALGO. DIA MINISTERIA CO. 1714 ALGO. DIA MINISTERIA CO. 1714 ALGO. DIA MINISTERIA CO. 1714 ALGO. DIA MINISTERIA CO.				DEGASSER														
ASSOCIATION ASSOCIATION	AL-0231	NUCOR DECATUR LLC	6/12/2007	BOILER	NATURAL GAS	9	5 MMBTU/H		ULTRA LOW NOX BURNERS	0.035	LB/MMBTU		3.33	LB/H		(
CALIFO CANADA CALIFORNIA	AP-0090	NUCOR STEEL ARKANSAS	4/3/2006	PICKLE LINE BOILERS SN-52	NATURAL GAS	12	6 MMRTILEACH		LOW NOY BURNERS	20	I R/H		12.4	T/VP		0.075	LRAMBTU	
Fig. 10 Fig.																		
CATION OF THE PROPERTY OF THE																		
CALIZE GENERAL \$1500 MERCH NATIONAL CAS STREET OF A MARTINI STREET								CONTINUOUS, H/D: 24. D/W: 7, W/Y: 52, NOTES: THREE IDENTICAL STEAM BOILERS										
CALIZE ORNSTRUCK STORY STATE COLOR								INSTALLED. FACILITY CONSIDERING ADDING BACK-UP DIESEL OIL FIRING										
CALIDA STANDARD	CA-1127	GENERATECH INC	9/27/2005	BOILER: >= 50	NATURAL GAS		7 MMRTI/H	CAPABILITY FOR EMERGENCY USE. SOURCE TEST RESULTS: SOURCE TEST PESTIT TS PENDING	NATCOM P.07-1 OG-35-2127		PPMVD @ 3% O2	SAMP PERIODS						
ACKIP AND ACKI	C10-1127	CALIFORNIA INC.)/2//200J	MAINTO II	TOTAL CITE		, manuficati		1011COM 1-57-E0005-2127		111111111111111111111111111111111111111					,		
CA1126 INDICATE								EQUIP: THREE 25 MMBTU/H STEAM BOILERS WITH FUEL OIL (AMBER 363)										
COTTAGE HEALTH CARE - STORAN STUTING COTTAGE HEALTH CARE - STORAN								150ST, FUNC EQUIP: PROVIDES HEAT TO A NEW HOSPITAL, FUEL TYPE: BACKUP										
College Coll						1	1	WITH AMRER 363 (BACT) UP TO 192 HRS/YR SCHEDULE: CONTINUOUS H/D: 24							1			
PRINCE SIGNATURE SIGNATU		COTTAGE HEALTH CARE		BOILER: 5 TO 5 b		1	MMRTI/H (75	D/W: 7, W/Y: 52, NOTES: BACT FOR BACKUP FUEL OIL IS: USE OF LOW NITRIGEN FUEL (AMBER 363) AND A LOW NOY RUDNED. NOY BACT, IS 40 DBACUD AT 284 CO.							1			
APPROPRIED AND MALE AND MAL	CA-1128	PUEBLO STREET	5/16/2006	33.5 MMBTU/H	NATURAL GAS	2	5 MMBTU/H	AND CO BACT IS 50 PPMVD AT 3% 02. SOURCE TEST RESULTS:	ULTRA-LOW NOX BURNER	9	PPMVD @ 3% O2	6-MIN AV	0					
CA-1192 AVENAL ENERGY PROJECT G-21/2011 BOLLER AVENAL ENERGY PROJECT AVENAL ENERGY PROJECT AVENAL	C1 1121	VICTORVILLE 2 HYBRID		AUXILIARY			A D ADTUS		OPERATIONAL RESTRICTION OF 500			1-HR AVG, @3%						
AUNILARY AUNILARY	CA-1191	POWER PROJECT	3/11/2010	DUILER	NATUKAL GAS	3	mmBTU/H		ULTRA LOW NOX BURNER, USE PUC	+ '	rrmVD (a) 5% O2	02	0		1	1	1	\vdash
AVEX.AL EMERGY PROJECT 6-2101 BOLLER NATURAL GAS 37.4 MABITUH (AS-100-100-100-100-100-100-100-100-100-10						1	1		OUALITY NATURAL GAS.						1			
FL 026 FPL WEST COUNTY 1/10/200 SOLLESS NATURAL GAS 99.8 NMBTUH PRODUCE \$5.000 LBHR STEAM EACH 0.05 LBMMBTU 0 0 0 0 0 0 0 0 0	CA-1192	AVENAL ENERGY PROJECT	6/21/2011	AUXILIARY BOILER	NATURAL GAS	27	4 MMRTU/H		OPERATIONAL RESTRICTION OF 46,		PPMVD @ 3% OX	3-HR AVG, @3%			1		J	
FL. WEST COUNTY FL. WEST COUNTY 1/10/2007 BOILERS NATURAL GAS 93.8 MMBTUH PRODUCE \$5.00 LBH STEAM EACH 0.05 LBAMBTU 0 0 0 0	CAV1192	A CONTROL ENERGY PROJECT	0/21/2011	TWO 99.8	MATURAL GAS	3/.	TOTAL STREET		OLD MANDE OF ER	†	mv12(0) 370 O2	102	0		1	,	1	
FL 0256 ENERGY CENTER				MMBTU/H GAS-		1	1								1			
FLO256 ENERGY CENTER	1	FPL WEST COUNTY			1	1						1			1		1	
Feoret Natural Gas Fooret	FL-0286	ENERGY CENTER	1/10/2007	BOILERS	NATURAL GAS	99.	8 MMBTU/H	PRODUCE 85,000 LB/HR STEAM EACH		0.05	LB/MMBTU		0			(
Foot Natural Gas SUNANCE MILL																		
Food Named Ges SUWANNEE MILL 9/520/2 MMBrs to 46 SUWANNEE MILL 9/520/2 MMBrs to 46 SUWANNEE MILL 12/20/2 20/16/18 SUWANNEE MILL 12/20						1	1	process. Two boilers each share a common stack for a total of two stacks. In the initial phase of							1			
FLOSTS SUMANNERILL 9-5-2012 MdBearboar Natural Gas 46 MdBTUH Finally, the rose homass boliers will be built and brought on line. Recirculation Natural Gas Natural				Four(4) Natural Gas		1	1	construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln							1			
KA MOTOS KA M	FI -0335	SUWANNEE MILL	0/5/2012		Natural Gas		6 MMRTU/H	blocks are completed, the two other natural gas boilers will be constructed and brought online. Finally, the two biomeses boilers will be built and brought on line.		0.026	I R/MMRTII				1		J	
GA-010 GEORGIA 7272/007 HEATERS NATURAL GAS BOILERS AND HEATERS BURNES 30 PMVD @ 35-02 BOILERS 00 LBAMBBTU HEATERS 0	120000	KIA MOTORS	9/3/2012		rundidi OdS		Opening I C/II	a many, me two oronand boutets will be built and brought on line.		0.036	LLE MINIDIO		,			, t		
MASSIALITONN						1	1							vn a o mwy				
MASSIALITONN	GA-0130		7/27/2007	HEATERS	NA TURAL GAS	<u> </u>	 	BOILERS AND HEATERS	BURNERS	30	PPMVD (a) 3% O2	AVERAGE OF 3	0.09	LB/MMBTU	HEATERS	(1	
TWO C2 SALEM HARBOR STATION SALEM HARBOR STATION TWO C2 SALEM HARBOR STATION BOTH BOLERS, LABELED AS BROI AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RECULATION. THIS IS CONSIDERED A STEAM RCIRCULATION BOTH BOLERS, LABELED AS BROI AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RECULATION. THIS IS CONSIDERED A STEAM RCIRCULATION BOTH BOLERS, LABELED AS BROI AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RECULATION. THIS IS CONSIDERED A STEAM RCIRCULATION BOTH BOLERS, LABELED AS BROI AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RECULATION. THIS IS CONSIDERED A STEAM RCIRCULATION BOTH BOLERS, LABELED AS BROJ AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RECULATION. THIS IS CONSIDERED A STEAM RCIRCULATION BOTH BOLERS, LABELED AS BROJ AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RECULATION. THIS IS CONSIDERED A STEAM RCIRCULATION BOTH BOLERS, LABELED AS BROJ AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RECULATION. THIS IS CONSIDERED A STEAM RCIRCULATION BOTH BOLERS, LABELED AS BROJ AND BROZ, ARE EQUIPPED WITH LOW NOX BURNER WITH FLUE GAS RCIRCULATION. THIS IS CONSIDERED A STEAM RCIRC	1	MARSHALLTOWN		1	1	1						ONE-HOUR TEST			1		1	
ST. JOSEPH ENEGRY ST. JOSEPH ENEGRY ALXILLIARY ST. JOSEPH ENEGRY ALXILLARY ALXILLARY ST. JOSEPH ENEGRY ALXILLARY ALXILLARY ALXILLARY ALXILLARY AL	*IA-0107	GENERATING STATION	4/14/2014	auxiliary boiler	natural gas	60.	1 mmBtu/hr	fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period	use of natural gas	0.013	LB/MMBTU	RUNS	0		-	(1	
**N-01-58 CENTER_LLC 12-3-2012 BOILERS NATURAL GAS 80 MMBTUH GENERATING UNIT. RECIRCULATION 0.032 LBM/MBTU 3 BOURS 2.56 LBH 3 HOURS 0 **IN-01-58 CENTER_LLC 12-3-2-2012 BOILERS NATURAL GAS 80 MMBTUH GENERATING UNIT. RECIRCULATION 0.032 LBM/MBTU 3 BOURS 2.56 LBH 3 HOURS 0 **IN-01-58 CENTER_LLC 12-3-2-2-12 BOILERS NATURAL GAS 80 MMBTUH GENERATING UNIT. RECIRCULATION 0.032 LBM/MBTU 3 BOURS 2.56 LBH 3 HOURS 0 **IN-01-58 CENTER_LLC 12-3-2-2-12 BOILERS NATURAL GAS 80 MMBTUH GENERATING UNIT. RECIRCULATION 0.032 LBM/MBTU 3 BOURS 2.56 LBH 3 HOURS 0 **IN-01-58 CENTER_LLC 12-3-2-2-12 BOILERS NATURAL GAS 80 MMBTUH GENERATING UNIT. RECIRCULATION 0.032 LBM/MBTU 3 BOURS 2.56 LBH 3 HOURS 0 **IN-01-58 CENTER_LLC 12-3-2-2-12 BOILERS NATURAL GAS 80 MMBTUH GENERATING UNIT. RECIRCULATION 0.032 LBM/MBTU 3 BOURS 2.56 LBH 3 HOURS 0 **IN-01-58 CENTER_LLC 12-3-2-2-12 BOILERS NATURAL GAS 80 MMBTUH GENERATING UNIT. RECIRCULATION 0.032 LBM/MBTU 3 BOURS 2.56 LBH 3 HOURS 0 **IN-01-58 CENTER_LLC 12-3-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2				NATURAL GAS		1	1								1			
1 HR BLOCK 1 HR BLOCK AVG, DOES NOT AVG, DOES NOT SALEM HARBOR STATION 4 APPLY DURING APPLY DURING						1	.1	BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM			l				I			
SALEM HARBOR STATION AVG, DOES NOT AVG, DOES NOT APPLY DURING APPLY DU	*IN-0158	CENTER, LLC	12/3/2012	BOILERS	NATURAL GAS	8	0 MMBTU/H	GENERATING UNIT.	RECIRCULATION	0.032	LB/MMBTU	3 HOURS	2.56	LB/H	3 HOURS	(1	
SALEM HARBOR STATION APPLY DURING APPLY DURING APPLY DURING						1	1					AVG, DOES NOT			AVG, DOES NOT			
"MA-00199			.,	l	L							APPLY DURING		nn 470 0 4/ : : :	APPLY DURING			
	MA-0039	KEDEVELOPMENT	1/30/2014	Auxiliary Boiler	Natural Gas		U[MMBtu/hr		ultra low NOx burners	0.011	LB/MMBTU	ISS	9	PPMVD @ 3% O	: ISS		1	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			FOUR (4) NATURAL GAS									i i		i i			
			BOILERS EACH														
	MEDIMMUNE FREDERICK		RATED AT 29.4 MILLION BTU				EACH OF THE FOUR BOILERS BURN NATURAL GAS WITH NO. 2 FUEL OIL AS A	ULTRA LOW NOX BURNERS ON EACH OF THE FOUR IDENTICAL			VOL., DRY BASIS, CORR. TO						
MD-0037	CAMPUS	1/28/2008	PER HOUR	NATURAL GAS	29.	4 MMBTU/H	BACK UP FUEL (FUEL OIL LIMITS ARE LISTED AS A SEPARATE PROCESS).	BOILERS		9 PPMVD @ 3% O	2 3% 02	Ί,	0		0.01	LB/MMBTU	
MD-0040	CPV ST CHARLES	11/12/2008	BOILER	NATURAL GAS	9	3 MMBTU/H	AUXILIARY BOILER	LOW NOX WITH FGR	0.0	11 LB/MMBTU	3-HR AVERAGE		0			0	
							NATURAL GAS FUEL ONLY, OPERATION OF LOW-NOX BURNER TECHNOLOGY,	EXCLUSIVE USE OF NATURAL GAS,									
*MD-0041	CPV ST. CHARLES	4/23/2014	AUXILLARY	NATURAL GAS		3 MMBTU/H	FLUE GAS RECIRCULATION (FGR), GOOD COMBUSTION CONTROLS, MAX HEAT INPUT OF 372,000 MMBTU/HR	ULTRA LOW-NOX BURNERS, AND FLUE GAS RECIRCULATION (FGR)		1 LB/MMBTU	3-HOUR AVERAGE	Ι.				,	
*MD-0041		4/23/2014		NATURAL GAS	,	S MMB1U/II	NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER	EXCLUSIVE USE OF PIPELINE	0.0	LEVMMBIU		<u> </u>	0		'	1	
*MD-0042	WILDCAT POINT GENERATION FACILITY		AUXILLARY	NATURAL GAS		5 MMBTU/H	TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000 MMBUT/HR PER 12-MONTH ROLLING PERIOD	QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES		01 LB/MMBTU	3-HOUR BLOCK AVERAGE	I .					
*MD-0042	GENERATION FACILITY	4/8/2014		NATURAL GAS	4	S MMB1U/H		COMBUSTION PRACTICES	0.	JI LB/MMB1U	AVERAGE		9			,	
			FGAUXBOILERS: Two auxiliary boilers				There are two auxiliary boilers each rated at less than 100 MMBTU/H heat input.										
	THETFORD GENERATING		< 100 MMBTU/H			MMBTU/H heat input	Fuel usage limited to not more than 416.3 MMscf of natural gas in each boiler per 12-month	Low NOx burners and flue gas									
*MI-0410	STATION HOLLAND BOARD OF	7/25/2013	heat input each	natural gas	10	0 each	rolling timeperiod as determined at the end of each month.	recirculation. Dry low NOx burners, flue gas	0.	05 LB/MMBTU	TEST PROTOCOL	L .	0)	
	PUBLIC WORKS - EAST 5TH		Auxiliary Boiler B				One natural gas-fired auxiliary boiler rated at 95 MMBtu/hr fuel heat input (EUAUXBOILERB	recirculation and good combustion									
*MI-0412	STREET HOLLAND BOARD OF	12/4/2013	(EUAUXBOILERB)	natural gas	9	5 MMBTU/H	within flexible group FGAUXBOILERS).	practices.	0.	05 LB/MMBTU	TEST PROTOCOL	L I	0)	
	PUBLIC WORKS - EAST 5TH		Auxiliary Boiler A				One natural sas-fired auxiliary boiler rated at 55 MMBTU/hr fuel heat input (EUAUXBOILERA	Low NOx burners and good combustion									
*MI-0412	STREET	12/4/2013	(EUAUXBOILERA)	natural gas	5	5 MMBTU/H	within flexible group FGAUXBOILERS). AUXILIARY BOILERS 2 AND 3 PROVIDE BACKUP STEAM TO THE CITY OF	practices LOW NOX BURNERS, FLUE GAS	0.	05 LB/MMBTU	TEST PROTOCOL	L I	0)	
							AUXILIARY BOILERS 2 AND 3 PROVIDE BACKUP STEAM TO THE CITY OF CONCORD STEAM DISTRICT (MOSTLY PROVIDES BUILDING HEAT TO BUSINESSE:	RECIRCULATION AND LESS THAN			AVERAGE OF 3 1						AVERAGE OF 3
	CONCORD STEAM		BOILER 3				IN THE DOWNTOWN AREA OF CONCORD) WHEN BOILER 1 IS OUT OF SERVICE FOR	700 HOURS OF OPERATION PER			HOUR TEST						HOUR TEST
NH-0015	CORPORATION	2/27/2009	(AUXILIARY)	NATURAL GAS	76.	8 MMBTU/H	SCHEDULED AND UNSCHEDULED MAINTENANCE. AUXILIARY BOILERS 2 AND 3 PROVIDE BACKUP STEAM FOR THE CITY OF	CONSECUTIVE 12 MONTH PERIOD. LOW NOX BURNERS, FLUE GAS	0.0	32 LB/MMBTU	RUNS	+	0		0.03	LB/MMBTU	RUNS
I				1	1	1	CONCORD STEAM DISTRICT (MOSTLY BUILDING HEAT IN DOWNTOWN	RECIRCULATION, AND LESS THAN		1	AVERAGE OF 3	1-		1			AVERAGE OF 3
NH-0015	CONCORD STEAM CORPORATION	9,99,9000	BOILER 2 (AUXILIARY)	NATURAL CAS		8 MMBTU/H	CONCORD) WHEN BOILER 1 IS OUT OF SERVICE FOR SCHEDULED AND	700 HOURS OPERATION PER		32 LB/MMBTU	HOUR TEST RUNS	1 .		1		I DAMPITT	HOUR TEST RUNS
1411-0013	CORTORATION	2/2//2009	(AUAILIART)	NATURAL GAS	/6.	opanaD1U/II	UNSCHEDULED MAINTENANCE WORK. The auxiliary boiler will have a maximum rated heat capacity of 91.6 MMBtu/h and will be limited.	CONSECUTIVE 12 MONTH PERIOD.	0.0.	2 LO/MMD1U	KUNS	1			0.03	LB/MMBTU	KUNS
I							to natural gas firing only. It will be operated for the purposes of supplying steam during the start- up of the combined cycle unit					1					1
I			Commercial/Instituti									1					1
	WOODBRIDGE ENERGY		onal size boilers less				The auxiliaryboiler will be equipped with Dry Low-NOx Burners to comply with BACT and				AVERAGE OF	I		AVERAGE OF			
NJ-0079	CENTER HESS NEWARK ENERGY	7/25/2012	than 100 MMBtu/hr Boiler less than 100	natural gas	91.	6 MMBtu/hr	LAER.	Low NOx burners Low NOx burners and flue gas	0.	01 LB/MMBTU	THREE TESTS AVERAGE OF	0.9	2 LB/H	THREE TESTS AVERAGE OF	-)	
NJ-0080	CENTER	11/1/2012	MMBtu/hr	Natural Gas	51.	9 mmcubic ft/year		recirculation	0.	05 LB/MMBTU	THREE TESTS	0.6	6 LB/H	THREE TESTS)	
							THE BACT DETERMINATIONS REPORTED HERIN ARE SPECIFICALLY FOR THE										
							TWO HURST BOILERS INSTALLED AT CAESAR'S PALACE. EACH OF THEM HAS A										
							RATED HEAT INPUT OF 35.4 MMBTU/HR. THE PERMITTING ACTION ALSO APPROVED THE INSTALLATION OF A NUMBER OF SMALL BOILERS. ALL OF WHICE										
							HAVE A RATED HEAT INPUT BELOW THE THRESHOLD OF INSTITUTIONAL SIZE.	1									
			COMMERCIAL/IN				NATURAL GAS IS THE ONLY FUEL USED FOR ALL BOILERS FOR THIS FACILITY. THE TOTAL INCREASE OF RATED HEAT INDIT FOR ALL THE NEW BOILERS IS 100:2										
	HARRAH'S OPERATING		STITUTIONAL-				MMBTU/HR. THE TWO NEW HURST BOILERS HAVE THE COMBINED RATED HEAT	LOW-NOX BURNER AND FLUE GAS									
NV-0044	COMPANY, INC.	1/4/2007	SIZE BOILERS	NATURAL GAS	35.	4 MMBTU/H	INPUT OF 70.8 MMBTU/HR, ACCOUNTING FOR 70% OF THE TOTAL INCREASE.	RECIRCULATION	0.0	35 LB/MMBTU		2	9 PPMVD @ 3% O	2 3% OXYGEN	0.03	LB/MMBTU	
			BOILERS/HEATER S - NATURAL GAS				THE FACILITY HAS 125 REGULATED UNITS AND 142 EXEMPT UNITS. UNIT RB013 (RITE BOILER, 6.5 MMBTU/HR) IS SELECTED TO SHOW THE BACT	LOW-NOX BURNER AND FLUE GAS									
NV-0047	NELLIS AIR FORCE BASE	2/26/2008		NATURAL GAS			DETERMINATIONS. THE EMISSION UNIT IS A CLEAVER BROOKS BOILER AT HARRAH'S LAS VEGAS.	RECIRCULATION	0.	3 LB/MMBTU		2	5 PPMVD @ 3% O	2 3% OXYGEN	0.0	LB/MMBTU	
							UNIT HA08 IS IDENTICAL TO HA09 AND HA10. THE SAME SET OF EMISSION LIMITS										
							APPLIES TO EACH OF THE THREE BOILERS. THE THREE BOILERS ARE SUBJECT TO										
							THE LIMIT OF TOTAL ANNUAL OPERATING TIME FOR 20,000 HOURS PER YEAR. THERE ARE NO BOILERS AT HARRAH'S LAS VEGAS, WHICH HAS A THROUGHPUT										
							CAPACITY IN EXCESS OF 10 MMBTU/HR. NO BACT DETERMINATIONS FOR ANY										
	HARRAH'S OPERATING		BOILER - UNIT				EMISSION UNITS AT BILL'S GAMBLIN' HALL & SALON ARE REPORTED HEREIN BECAUSE ALL OF THEM HAVE A VERY SMALL POTENTIAL TO EMIT FOR ANY	EQUIPPED WITH A LOW-NOX						CORRECTED AT			
NV-0049	COMPANY, INC.	8/20/2009	HA08	NATURAL GAS	8.3	7 MMBTU/H	POLLUTANT.	BURNER	0.01	46 LB/MMBTU		1:	2 PPMVD @ 3% O		0.014	LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT				UNIT FL01 IS A JOHNSTON BOILER AT FLAMINGO LAS VEGAS. THIS UNIT MAY	LOW NOX BURNER AND FLUE GAS						CORRECTED TO			
NV-0049	COMPANY, INC.	8/20/2009		NATURAL GAS	14.3	4 MMBTU/H	OPERATE 8,760 HOURS PER YEAR. UNIT BA01 IS A KEWANEE BOILER AT BALLY'S LAS VEGAS, UNIT BA01 IS	RECIRCULATION	0.03	53 LB/MMBTU		2	9 PPMVD @ 3% O	2 3% OXYGEN	0.035	LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT				IDENTICAL TO UNIT BA02. THE TWO BOILERS ARE SUBJECT TO THE ANNUAL	LOW-NOX BURNER AND BLUE GAS						CORRECTED TO			
NV-0049	COMPANY, INC. HARRAH'S OPERATING	8/20/2009	BA01 BOILER - UNIT	NATURAL GAS	16.	8 MMBTU/H	LIMIT OF COMBINED TOTAL OPERATING TIME FOR 10,900 HOURS PER YEAR. UNIT BA03 IS A KIWANEE BOLER AT BALLY'S LAS VEGAS. THE ANNUAL	RECIRCULATION	0.	3 LB/MMBTU		2	5 PPMVD @ 3% O	2 3% OXYGEN CORRECTED TO	0.0	LB/MMBTU	
NV-0049	COMPANY, INC.	8/20/2009		NATURAL GAS	31.3	8 MMBTU/H	OPERATING TIME IS LIMITED TO 2,920 HOURS PER YEAR.	LOW-NOX BURNER	0.03	06 LB/MMBTU	1	2	PPMVD @ 3% O	2 3% OXYGEN	0.030	LB/MMBTU	1
					_		UNIT CP01 IS A HURST BOILER AT CAESAR'S PALACE UNIT CP01 IS IDENTICAL TO										
I	HARRAH'S OPERATING		BOILER - UNIT	1	1	1	UNIT CP02 UNITS CP01 THROUGH CP05 (FIVE BOILERS) ARE SUBJECT TO THE			1	1	1		CORRECTED TO	•		1
NV-0049	COMPANY, INC.	8/20/2009	CP01	NATURAL GAS	35.	4 MMBTU/H	ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR. UNIT CP03 IS A BURNHAM BOILER AT CAESARS PALACE. UNITS CP01 THROUGH	LOW NOX BURNER	0.0	35 LB/MMBTU	-	2	9 PPMVD @ 3% O	2 3% OXYGEN	0.03	LB/MMBTU	1
	HARRAH'S OPERATING		BOILER - UNIT				CP05 (FIVE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING			1				CORRECTED TO	•		
NV-0049	COMPANY, INC. HARRAH'S OPERATING	8/20/2009	CP03 BOILER - UNIT	NATURAL GAS	33.4	8 MMBTU/H	TIME FOR 33,520 HOURS PER YEAR. UNIT CP26 IS A UNILUX BOILER AT CAESAR'S PALACE. THE UNIT IS ALLOWED TO	LOW NOX BURNER	0.03	57 LB/MMBTU	1	3	PPMVD @ 3% O	2 3% OXYGEN CORRECTED TO	0.036	LB/MMBTU	1
NV-0049	COMPANY, INC.	8/20/2009	CP26	NATURAL GAS	2	4 MMBTU/H	OPERATE UP TO 8 760 HOURS PER YEAR	LOW NOX BURNER	0.01	08 LB/MMBTU		1	PPMVD @ 3% O		0.010	LB/MMBTU	
							UNIT PA15 IS A BRYAN BOILER AT PARIS CASINO RESORT, UNIT PA15 IS										
							IDENTICAL TO UNIT PA16. UNIT PA14 IS A BRYAN BOILER RATED AT 17.0 MMBTU/HR. EACH OF THE THREE BOILERS IS SUBJECT TO THE LIMIT OF ANNUAL			1				1			
l	HARRAH'S OPERATING		BOILER - UNIT				OPERATING TIME FOR 4,380 HOURS PER YEAR. THEY SHARE THE SAME BACT							CORRECTED TO	•		
NV-0049	COMPANY, INC.	8/20/2009	PA15	NATURAL GAS	2	1 MMBTU/H	DETERMINATIONS ON THE PER MMBTU BASIS. UNIT 1P04 IS A KEWANEE BOILER AT IMPERIAL PALACE. UNIT 1P04 IS IDENTICAL	LOW NOX BURNER	0.03	66 LB/MMBTU	1	3	PPMVD @ 3% O	2 3% OXYGEN	0.036	LB/MMBTU	1
	HARRAH'S OPERATING		BOILER - UNIT				TO UNIT IP05. EITHER BOILER IS ALLOWED TO OPERATE UP TO 8,760 HOURS PER			1				CORRECTED TO	•		
NV-0049	COMPANY, INC.	8/20/2009	IP04	NATURAL GAS	16.	7 MMBTU/H	YEAR.	LOW NOX BURNER	0.0	19 LB/MMBTU	1	40.	2 PPMVD @ 3% O	2 3% OXYGEN	0.004	LB/MMBTU	1
			BOILERS - UNITS				THE THREE UNITS ARE IDENTICAL NEBRASKA BOILERS, EACH OF WHICH IS			1				1			
			CC001, CC002,				RATED AT 41.64 MMBTU/HR. EACH UNIT IS ALLOWED TO OPERATE 24 HOURS/DAY			1					.1		
NV-0050	MGM MIRAGE	11/30/2009	AND CC003 AT CITY CENTER	NATURAL GAS	41 6	4 MMBTU/H	AND UP TO 5,800 HOURS/ YEAR. THE EMISSION LIMITS REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006.	LOW NOX BURNER AND FLUE GAS RECIRCULATION	0.0	1 LB/MMBTU		1 .	PPMVD @ 3% O	CORRECTED TO 2 3.0% OXYGEN	0.01	LB/MMBTU	
			BOILERS - UNITS				THE THREE UNITS ARE IDENTICAL CATERPILLAR BOILERS, EACH RATED AT 44										
			CC026, CC027 AND CC028 AT CITY				MMBTU/HR. EACH UNIT IS SUBJECT TO THE ANNUAL LIMIT OF OPERATING TIME TO 5.800 HOURS. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR	LOW NOX BURNER AND GOOD		1				CORRECTED TO	, [
NV-0050	MGM MIRAGE	11/30/2009	CENTER	NATURAL GAS	4	4 MMBTU/H	MODIFICATION #13 DATED NOVEMBER 30, 2009.	COMBUSTION PRACTICES	0.01	9 LB/MMBTU		<u> </u>	PPMVD @ 3% O		0.010	LB/MMBTU	<u> </u>
NY-0095	CAITHNES BELLPORT		AUXILIARY			4 MMBTU/H	4800 H/VP	LOW NOX BURNERS & FLUE GAS		1 LB/MMBTU	1					,	
N Y-0095	ENERGY CENTER	5/10/2006	BUILER	NATURAL GAS	29.	mmB1U/H	TWO BOILERS WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION. WITH	RECIRCULATION	0.0	LILB/MMBIU	+	+ '	U	_	<u> </u>	,	1
I	L			1	1	1	#2 OIL BACKUP			1	1	1		1			1
OH-0309	TOLEDO SUPPLIER PARK- PAINT SHOP	5/3/2007	BOILER (2), NATURAL GAS	NATURAL GAS	20	4 MMBTU/H	TWO SET OF LIMITS, THIS ONE FOR NATURAL GAS	LOW NOX BURNERS AND FLUE GAS RECIRCULATION		72 LB/H	1	3	5 T/YR	1	0.03	LB/MMBTU	1
	TITAN TIRE CORPORATION										1	3					
OH-0323	OF BRYAN		BOILER	NATURAL GAS		4 MMBTU/H				47 LB/H	1	10.8	2 T/YR	1	5	LB/MMSCF	AP-42 FACTOR
	REPUBLIC STEEL	7/18/2012	Steam Boiler	Natural Gas	1 6	5 MMBtu/H	Natural Gas-fired stam boiler to vacuum tank degasser	1	0.0	07 LB/MMBTU	1	1	D]	1	1)	1

									IEMISSION		LAVGTIME	TEMISSION		IAVG TIME ISTANDARAD		LAVG TIME
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION EMISSION LIMIT	UNIT	CONDITION
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Auxillary Boiler AUXILIARY	Natural Gas	g	9 MMBtu/H	99 MMBTU/H auxillary boiler with low-NOx burners and flue gas re-circulation, burning only natural gas. Boiler restricted to 2000 hours of operation per rolling 12-months.	low NOx burners and flue gas recirculation	1.9	8 LB/H		1.90	T/YR	PER ROLLING 12- MONTHS 0.)2 LB/MMBTU	
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	BOILER	NATURAL GAS	33.	5 MMBTU/H		LOW-NOX BURNERS	0.0	7 LB/MMBTU		2.36	LB/H		0	
OK-0135	PRYOR PLANT CHEMICAL	2/23/2009	BOILERS #1 AND #2	NATURAL GAS	8	0 MMBTU/H	THE BOILERS WILL PROVIDE THE STEAM NEEDED TO OPERATE THE VARIOUS PIECES OF EQUIPMENT AT THE FACILITY.	LOW-NOX BURNERS AND GOOD COMBUSTION PRACTICES		4 LB/H	3-H/168-H ROLLING CUMMULATIVE	0.5	LB/MMBTU	STATE LIMIT	0	
			TB-1 Leased Boiler								365 DAY ROLLING			365 DAY ROLLING		
OK-0137	PONCA CITY REFINERY	2/9/2009	No. 1	Natural Gas	9	5 MMBTU/H		Ultra-low NOx burners (0.036lb/mmbtu)	3.4	2 LB/H	AVERAGE	15	T/YR	AVERAGE	0	
			TB-2 Leased Boiler					ULNB- Ultra-low NOx burners ,			365 DAY ROLLING			365 DAY ROLLING		
OK-0137	PONCA CITY REFINERY	2/9/2009	No.2 NATURAL GAS-	Natural Gas	9	5 MMBTU/H		0.036lb/mmbtu	3.4	2 LB/H	AVERAGE	15	T/YR	AVERAGE	0	
OR-0048	CARTY PLANT TROUTDALE ENERGY	12/29/2010	FIRED BOILER	NATURAL GAS	9	1 MMBTU/H		LOW NOX BURNERS	4.	5 LB/H	3-HR BLOCK	()		0	
*OR-0050	CENTER, LLC	3/5/2014	Auxiliary boiler	natural gas	39.	8 MMBtu/hr		Utilize Low-NOx burners and FGR.	0.03	5 LB/MMBTU	AVERAGE	()		0	
	HICKORY RUN ENERGY		AUXILIARY											12-MONTH		
*PA-0291	STATION	4/23/2013	BOILER VACUUM	Natural Gas	4	0 MMBTU/H			0.01	1 LB/MMBTU		1.0	T/YR	ROLLING TOTAL	0	
SC-0112	NUCOR STEEL - BERKELEY	5/5/2008	DEGASSER BOILER	NATURAL GAS	50.2	1 MMBTU/H		ULTRA-LOW NOX NATURAL GAS FIRED BURNERS	0.03	5 LB/MMBTU		1.7/	LB/H		S5 LB/MMBTU	
SC-0112	KLAUSNER HOLDING USA, INC.		NATURAL GAS BOILER EU003	NATURAL GAS		6 MMBTU/H		TIMED DORGERO		6 LB/MMBTU	3-HOUR		LB/H	1-HOUR	o Livinimi C	
	KLAUSNER HOLDING USA,		NATURAL GAS												0	
SC-0149	INC KLAUSNER HOLDING USA.		BOILER EU004 NATURAL GAS	NATURAL GAS	4	6 MMBTU/H			0.03	6 LB/MMBTU	3-HOUR		LB/H	1-HOUR	0	
SC-0149	INC KLAUSNER HOLDING USA,	1/3/2013	BOILER EU005 NATURAL GAS	NATURAL GAS	4	6 MMBTU/H			0.03	6 LB/MMBTU	3-HOUR	1.66	LB/H	1-HOUR	0	
SC-0149	INC	1/3/2013	BOILER EU006	NATURAL GAS	4	6 MMBTU/H			0.03	6 LB/MMBTU	3-HOUR	1.66	LB/H	1-HOUR	0	
	VOLKSWAGEN GROUP OF		NATURAL GAS-													
*TN-0160	AMERICA, CHATTANOOGA OPERATIONS	10/10/2008	FIRED BOILERS	NATURAL GAS	2	4 MMBTU/H	THROUGHPUT IS HEAT INPUT FOR EACH BOILER.	LOW-NOX BURNERS, FLUE GAS RECIRCULATION	3	0 PPMVD @ 3% O2	3% O2 DRY BASIS				0	
TX-0501	TEXSTAR GAS PROCESS FACILITY	7/11/2004	POWER STEAM BOILER	NATURAL GAS		3 MMBTU/H				9 LB/H		7.0	T/YR			
1 X-0301	PACILITY	//11/2006	BOILER	NATURAL GAS	,	3 MMB1U/H	THE BOILER, EPN BLR, HAS SCR WITH LOW NOX BURNERS, A NOX LONG-TERM EMISSION FACTOR OF 0.007 LB NOX /MMBTU AND A SHORT-TERM EMISSION		8.3	y LD/II		7.03	1/1K		0.	
	SABINA PETROCHEMICALS			NATURAL GAS			FACTOR OF 0.020 LB NOX /MMBTU TO ACCOMMODATE FOR HOT STANDBY. BECAUSE OF THE LOW ANNUAL EMISSION FACTOR, THIS WAS ACCEPTED AS				HOURLY		I R/MMRTU			
TX-0575	LLC TENASKA BROWNSVILLE	8/20/2010	BOILER	NATURAL GAS		8 SCF/H	LAER.	LOW NOX BURNERS AND SCR	0.0	2 LB/MMBTU PPMVD @ 15%		0.00	LB/MMBTU	ANNUAL	0	
*TX-0713	GENERATING STATION S R BERTRON ELECTRIC	4/29/2014	boiler	natural gas		0 MMBtu/hr	50% annual capacity factor	ultra low-NOx burners, limited use		9 02	@15% O2				0	
*TX-0714	GENERATING STATION PORT OF BEAUMONT	12/19/2014		natural gas	8	0 MMBtu/hr	operation limitation of 4,000 hours per year	low-NOx burners	0.03	6 LB/MMBTU	3-HR ROLLING)		0	
	PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size													
*TX-0772	TERMINAL (PBPTT) PORT OF BEAUMONT	11/6/2015	Boilers/Furnaces Commercial/Instituti	natural gas	4	0 MMBtu/hr	Hot oil heater	Low NOx burners	0.03	6 LB/MMBTU		-			0	-
*TX-0772	PETROLEUM TRANSLOAD TERMINAL (PRPTT)	11/6/2015	onal-Size Boilers/Furnaces	natural gas	95	7 MMBtu/hr	Three boilers will be used intermittently to provide steam for heating tanks or railcars as necessary to reduce viscosity of heavy liquids.	Low NOx burners and flue gas recirculation	0.01	1 LB/MMBTU					0	
	TERMINAL (PBPTT) PORT OF BEAUMONT PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size				Boiler will be operated continuously to maintain system temperatures in the intermittent boilers		***							
*TX-0772	TERMINAL (PBPTT) CHEYENNE PRAIRIE	11/6/2015	Boilers/Furnaces	natural gas	13.	2 MMBtu/hr	and heavy liquid storage tanks.	III. I NO I IA	0.	1 LB/MMBTU	3 HOUR	()	3 HOUR	0	
*WY-0075	GENERATING STATION	7/16/2014	Auxiliary Boiler	natual gas	25.0	6 MMBtu/h		Ultra low NOx burners and flue gas recirculation	0.017	5 LB/MMBTU	AVERAGE	0.4	LB/H	AVERAGE	0	
LA-0240	FLOPAM INC.	6/14/2010	Boilers	natural gas	25.	1 MMBTU/H		Ultra Low NOx Burners	0.3	8 LB/H	HOURLY MAXIMUM	,	PPMVD @ 3% O2	(2) OR (1) 0.0	15 LB/MMBTU	(1) OR (2)
*MI-0393	RAY COMPRESSOR STATION	10/14/2010	Auxiliary Boiler	natural sas		5 MMBTU/H	Boiler provides building heat.	Low NOx burner.		3 LB/H	TEST METHOD		LB/MMBTU		0	
MI-0373	BERKS HOLLOW ENERGY	10142010	ruxinii y Donci	manua gas	12.2	J. MAIDTON	noner provides outlang near.	LOW ITOX DAIREI.		Livii	12-MONTH	0.05.	Lisministo			
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Auxiliary Boiler	Natural Gas	4	0 MMBtu/hr		Use of natural gas	1.0	1 T/YR	ROLLING TOTAL	. ()		0	
	Astoria Energy LLC		Auxiliary Boiler	Natural Gas	9	9 MMBtu/hr		Clean Fuel	0.01	1 LB/MMBTU	1-hr average	1.09	LB/H	3-hour block average		
	Footprint Power Salem Harbor Development LP		Auxiliary Boiler	Natural Gas		0 MMBtu/hr		Pipeline quality NG		8 LB/H	1-hr average		lb/MMBtu	1-hr average		
	Footprint Power Salem								0.8	PPMVD @ 15%		0.011	мумими	average		
	Harbor Development LP CPV Valley Energy Center		Auxiliary Boiler	Natural Gas	8	0 MMBtu/hr		Pipeline quality NG Low NOx burners and flue gas re		9 02	1-hr average	-			1	
	Wawayanda, NY		Auxiliary Boiler	Natural Gas	73.	5 MMBtu/hr		circulation.	0.04	5 LB/MMBTU	1-hr average					
	Cricket Valley Energy Center		Auxiliary Boiler	Natural Gas	100	3 MMBtu/hr			0.01	1 LB/MMBTU						
	Pioneer Valley Energy															
	Center Tenaska Partners LLC	-	Auxiliary Boiler Auxiliary Boiler	Natural Gas Natural Gas		l MMBtu/hr 5 MMBtu/hr				9 LB/MMBTU 1 LB/MMBTU			LB/H T/YR	12-month rolling		
	SUNBURY GENERATION		· ·													
	LP SUNBURY GENERATION		Auxiliary Boiler	Natural Gas	10	6 MMBTU/hr			0.03	6 LB/MMBTU	12 month-period	3.82	LB/H	12 month-period	+	
	LP		Auxiliary Boiler	Natural Gas	10	6 MMBTU/hr			7.	6 T/YR						
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	1	5 MMBTU/hr			0.08	5 LB/MMBTU	12 month-period	1.27	LB/H	12 month-period		
	SUNBURY GENERATION															
	LP		Auxiliary Boiler	Natural Gas	1	5 MMBTU/hr MMBTU per 12 mo				5 T/YR		1			+	-
	Kalama Energy Center	-	Auxiliary Boiler	Natural Gas	15987	0 rolling			1	2 PPMVD @ 3% O2	1-hr avg	0.54	LB/H	1-hr avg	1	1
	LAWRENCE ENERGY CENTER LLC		Auxiliary Boiler	Natural Gas	9	9 MMBTU/hr			0.0	5 LB/MMBTU		4.95	LB/H	12 month-period		
	PacifiCorp's Lake Side		Auxiliary Boiler	Natural Gas		2 MMBTU/hr				7 LB/MMBTU	3-hr					
	Power Plant PacifiCorp's Lake Side	 	#1 Auxiliary Boiler	inaturai Gas							3-hr	1			1	
	Power Plant		#2	Natural Gas	61.	2 MMBTU/hr			0.01	7 LB/MMBTU	3-hr	1			1	-
	PA STATE UNIV/UNIV PARK CAMPUS		WCSP Boiler 1	Natural Gas	140.19	6 MCF/hr			0.5	5 LB/MMBTU						
	PA STATE UNIV/UNIV PARK CAMPUS		WCSP Boiler 2	Natural Gas		6 MCF/hr				5 LB/MMBTU						
	PA STATE UNIV/UNIV															<u> </u>
	PARK CAMPUS		WCSP Boiler 6	Natural Gas	151.9	6 MCF/hr			0.5	5 LB/MMBTU						

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	PA STATE UNIV/UNIV																\top
	PARK CAMPUS		WCSP Boiler 8	Natural Gas	151.96	MCF/hr			0.55	LB/MMBTU							
	PA STATE UNIV/UNIV																
	PARK CAMPUS		ECSP Boiler 1	Natural Gas	127.45	MCF/hr			0.2	LB/MMBTU		107.5	T/YR	any 12 mo			
	PA STATE UNIV/UNIV																
	PARK CAMPUS		ECSP Boiler 2	Natural Gas	127.45	MCF/hr			0.2	LB/MMBTU		107.5	T/YR	any 12 mo			
	Sevier Power Company		Auxiliary Boiler														
	Power Plant			Natural Gas	85	Mmbtu/hr			0.017	LB/MMBTU	3-hr						
			Auxiliary Boilers #1														
	St. Joseph's Energy Center		and #5	Natural Gas	83	MMBtu/hr			0.032	LB/MMBTU	3-hr	2.56	LB/H	3-hr			
	York Energy Center Block 2	42170	Auxiliary Boiler	Natural Gas	61	MMBtu/hr		Use of natural gas	0.0086	lb/MMBtu		2.3	T/YR				
	MOUNDSVILLE COMBINED CYCLE POWER PLANT		Auxiliary Boiler	Natural Gas	100	MMBtu/hr			2	LB/H		2	T/YR				

Table D-B-2 Carbon Monoxide (CO) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE		PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
L-0356	OKEECHOBEE CLEAN ENERGY CENTER	3/9/201	Auxiliary Boiler, 99.8 MMBtu/hr	Natural gas	99	8 MMBtu/hr	Fires only natural gas. Limited to 2000 hr/yr.	Proper combustion prevents CO	0.00	8 LB/MMBTU)		Ι .		
	DANIA BEACH ENERGY		99.8 MMBtu/hr														
FL-0363	CENTER	12/4/201	NATURAL GAS	Natural gas	99.	8 MMBtu/hr	Fueled only with natural gas.	Clean fuel	0.00	8 LB/MMBTU	+	-))	+
			AUXILIARY BOILERS (EU-					GOOD COMBUSTION PRACTICES AT									
	MIDWEST FERTILIZER		012A, EU-012B,	EU- NATURAL				ALL TIMES THE BOILERS ARE IN			3 HOUR		MMCF/12	ROLLING			
N-0263	COMPANY LLC LAKE CHARLES	3/23/201	7 012C) Auxiliary Boilers	GAS	218.0	MMBTU/H	Supplement fuel: fuel gas	OPERATION good engineering design and good	37.22	LB/MMCF EACH	AVERAGE	1877.39	MONTH EACH	AVERAGE	-		
LA-0305	METHANOL FACILITY	6/30/201	Superheaters	Natural Gas	-	0	Boilers: 225 MM BTU/hr each	combustion practices		0)				
LA-0307	MAGNOLIA LNG FACILITY	3/21/201	Auxiliary boilers	natural gas	17	mm btu/hr		good combustion practices		0		-)		-		
	DTE GAS COMPANY=						Two natural gas-fired auxiliary boilers, each rated at 6 MMBTU/H fuel heat input. The boilers are										
MI-0420	MILFORD COMPRESSOR STATION	6/3/201	FGAUXBOILE	S Natural gas	1 .	MMBTU/H	identified as EUAUXBOIL2 and EUAUXBOIL3 within the flexible group FGAUXBOILERS. The boilers are subject to 40 CFR Part 63 Subpart DDDDD, which requires tune ups.	Good combustion practices and clean burn fuel (pipeline quality natural gas)	0.00	8 LB/MMBTU	TEST PROTOCOL	Ι,			1 .		
0420	DIMION	0.5/201	, i cate about	J Huturur gas		, man Di Coli	The object are subject to 40 c. 12 fair to 5 duplat 155555, which requires take up.	ruer (pipenie quant) natural gar)	0.00	Limini						1	
			EUAUXBOILEI								TEST PROTOCOL WILL SPECIFY						
MI-0423	INDECK NILES, LLC	1/4/201	(Auxiliary Boiler		18:	MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fuel heat input.	Good combustion practices.	0.0	4 LB/MMBTU	AVG TIME)		-)	
	HOLLAND BOARD OF										TEST PROTOCOL						
	PUBLIC WORKS - EAST 5TH		EUAUXBOILE	.							WILL SPECIFY						
MI-0424	STREET	12/5/201	(Auxiliary boiler FGAUXBOILEI	natural gas	83.:	MMBTU/H	One natural gas fired auxiliary boiler rated at 83.5 MMBTU/hr fuel heat input (EUAUXBOILER).	Good combustion practices.	0.07	7 LB/MMBTU	AVG TIME	-)		 '		+
			(6 auxiliary boile EUAUXBOIL2/	S													
			EUAUXBOIL2/				Four natural gas-fired auxiliary boilers, each rated at 3 MMBTU/H fuel heat input										
			EUAUXBOIL2E				(EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B and EUAUXBOIL3B in										
	DTE GAS COMPANY - MILFORD COMPRESSOR		EUAUXBOIL3E EUAUXBOIL20	:			FGAUXBOILERS) and two natural gas-fired auxiliary boilers, each rated at 1 MMBTU/H fuel heat input (EUAUXBOIL2C and EUAUXBOIL3C in FGAUXBOILERS). The boilers are	Good combustion practices and clean burn									
MI-0426	STATION	3/24/201	EUAUXBOIL30) Natural gas		MMBTU/H	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	fuel (pipeline quality natural gas).	8-	LB/MMSCF	EACH BOILER			1	1		1
			EUAUXBOILEI	.			A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the CTGHRSG train and to provide the required steam to support the startup of the facility, including but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low		1		1				1		1
	MEC NORTH, LLC AND MEC		(North Plant):			S MMBTU/H	but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low	L				l .					
*MI-0433	SOUTH LLC	6/29/201	Auxiliary Boilde	Natural gas	61.:	mMB1U/fl	our nor infinite to secan to spagging, 510 seas, etc. The auxiliary botter is equipped with low NOx burners (LNB) and flue gas recirculation (FGR). A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	Good combustion practices.	0.00	B LB/MMBTU	HOURLY	· '	1	+	+	1	+
			EUAUXBOILE	.			CTGHRSG train and to provide the required steam to support the startup of the facility, including but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low										
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/201	(South Plant): Auxiliary Boiler	Natural gas	61.:	MMBTU/h	NOX burners (LNB) and flue gas recirculation (FGR).	Good combustion practices.	0.00	8 LB/MMBTU	HOURLY	١ ,	,		1 .		
							A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the	·									
	BELLE RIVER COMBINED		EUAUXBOILE	.			A natural gas-fired auxiliary boiler, rated at 99.9 MMB1U/H to facilitate startup of the CTG/HRSG trains and to provide steam to the steam turbine generator seals. The auxiliary boiler										'
*MI-0435	CYCLE POWER PLANT PSEG FOSSIL LLC	7/16/201	Auxiliary Boiler	Natural gas	99.9	MMBTU/H	is equipped with low NOx burners (LNB) and flue gas recirculation (FGR).	Good combustion practices	0.07	LB/MMBTU	HOURLY AV OF THREE	7.49	LB/H	HOURLY	-)	<u> </u>
	SEWAREN GENERATING		Auxiliary Boiler				Maximum heat input rate for natural gas fired auxiliary boiler is 80 MMBtu/hr (HHV) permitted to	Use of good combustion practices and use			ONE H STACK						1
VJ-0084	STATION	3/10/201	firing natural gas	natural gas	81	mmBtu/hr	operate for 8760 hrs/yr.	of natural gas a clean burning fuel	2.81	8 LB/H	AV OF THREE)		-		
								USE OF NATURAL GAS A CLEAN			ONE H STACK						'
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/10/201	AUXILIARY BOILER	Natural GAS	400	H/YR		BURNING FUEL AND GOOD COMBUSTION PRACTICES	20	LB/H	TESTS INITIALLY	Ι.			l .		1
NJ-0085	CRICKET VALLEY ENERGY	//19/201	BOILER	Naturai GAS				COMBUSTION PRACTICES			INITIALLY	,	,		<u> </u>	,	
NY-0103	CENTER CPV FAIRVIEW ENERGY	2/3/201	Auxiliary boiler	natural gas	6	MMBTU/H	Limited to 4,500 H/YR	good combustion practice	0.0375	LB/MMBTU	1 H AVG OF 3 1-HR)	12-MONTH	<u> </u>		
*PA-0310	CENTER	9/2/201	Auxilary boiler	Natural Gas	92.	4 MMBtu/hr	Operation of the auxiliary boiler shall not exceed 4000 hrs in any continuous 12-month period.	ULSD and good combustion practices	0.03	LB/MMBTU	TEST RUNS	6.8	TPY	ROLLING BASIS	:)	
*WV-0029	HARRISON COUNTY POWER PLANT	2/27/201	Auxiliary Boiler	Natural Gas	777	8 mmBtu/hr	Annual emission based on 4600 hours/year.	Good Combustion Practices	2.01	8 LB/HR		6.51	TONS/YEAR		0.02	LB/MMBTU	'
	KENAI NITROGEN		Five (5) Waste F	at				Cook Combinion Frances		PPMVD @ 15%	3-HR AVG @ 15	0.54	, TORD TERM			Larminare	+
*AK-0083	OPERATIONS	1/6/201	3 NATURAL G	Natural Gas	51	MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.		50	0 02	% O2)		- ')	
			FIRED BOILER	5													'
	THYSSENKRUPP STEEL		WITH ULNB & amp; EGR (53	- NATURAL													'
AL-0230	AND STAINLESS USA, LLC	8/17/200		GAS NATURAL	64.9	MMBTU each	THIS PROCESS IS COVERED UNDER 503-0095-X026.		0.0	4 LB/MMBTU		2.63	LB/H		-		
AR-0090	NUCOR STEEL, ARKANSAS	4/3/200	BOILERS, SN-5		12.0	MMBTU EACH		GOOD COMBUSTION PRACTICE	3.3	LB/H		13.5	T/YR		0.08	LB/MMBTU	1
							EQUIP: WATERTUBE, MFR: NEBRASKA BOILER, INC., TYPE: STEAM BOILER, MODEL: NS-E-64-ST-CA-HM-AL, FUNC EQUIP: PROVIDE STEAM AND HOT WATER.,										
							FUEL_TYPE: MAY INSTALL DIESEL OIL BACKUP IN FUTURE., SCHEDULE:										1
							CONTINUOUS, H/D: 24, D/W: 7, W/Y: 52, NOTES: THREE IDENTICAL STEAM BOILERS INSTALLED. FACILITY CONSIDERING ADDING BACK-UP DIESEL OIL FIRING				THREE 30-MIN						
			BOILER: >=	0 NATURAL			CAPABILITY FOR EMERGENCY USE. SOURCE TEST RESULTS: SOURCE TEST	ULTRA LOW NOX BURNERS:			SAMP PERIODS						
CA-1127	GENENTECH, INC.	9/27/200	MMBTU/H	GAS	9	MMBTU/H	RESULTS PENDING.	NATCOM P-97-LOG-35-2127	50	PPMVD @ 3% O2	AV	-		-	+ -	-	+
							EQUIP: THREE 25 MMBTU/H STEAM BOILERS WITH FUEL OIL (AMBER 363)										
	1						BACKUP, MFR: CLEAVER-BROOKS, TYPE: STEAM BOILER, MODEL: 4WI700-600- 150ST, FUNC EQUIP: PROVIDES HEAT TO A NEW HOSPITAL, FUEL_TYPE: BACKUP										1
							WITH AMBER 363 (BACT) UP TO 192 HRS/YR, SCHEDULE: CONTINUOUS, H/D: 24,		1		1				1		1
	COTTAGE HEALTH CARE -		BOILER: 5 TO 8	It- NATURAL		MMRTU/H (75	D/W: 7, W/Y: 52, NOTES: BACT FOR BACKUP FUEL OIL IS: USE OF LOW NITRIGEN FUEL (AMBER 363) AND A LOW NOX BURNER. NOX BACT IS 40 PPMVD AT 3% O2		1		1				1		1
CA-1128	PUEBLO STREET	5/16/200	33.5 MMBTU/H	GAS	2:	MMBTU/H	AND CO BACT IS 50 PPMVD AT 3% O2. SOURCE TEST RESULTS:	ULTRA-LOW NOX BURNER	50	PPMVD @ 3% O2	6-MIN AV)		1		
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/201	AUXILIARY BOILER	NATURAL GAS	3	MMBTU/H		OPERATIONAL RESTRICTION OF 500 HR/YR	9	0 PPMVD @ 3% O2	1-HR AVG, @3%						
		3/10/201			1			HR/YR ULTRA LOW NOX BURNER, USE PUG	1		1	<u> </u>			1		1
	1		AUXILIARY	NATURAL				QUALITY NATURAL GAS, OPERATIONAL RESTRICTION OF 46.	1	1	3-HR AVG, @3%						1 '
CA-1192	AVENAL ENERGY PROJECT	6/21/201	BOILER ONE GASEOUS	GAS	37.	MMBTU/H		675 MMBTU/YR	50	PPMVD @ 3% O2	02				1 -		
			ONE GASEOUS FUELED 99	1					1		1				1		1 '
			MMTU/HR						1	1	1						1 '
FL-0285	PROGRESS BARTOW POWER PLANT	1/26/200	AUXILIARY BOILER	NATURAL GAS	9	MMBTU/H			0.00	B LB/MMBTU		40	PPMVD @ 3% C	02	1 .		1 '
	1		TWO 99.8		1				0.00			40	1		1		
			MMBTU/H GAS						1		1				1		1 '
	FPL WEST COUNTY		AUXILIARY	NATURAL		l			1		1						1
FL-0286	ENERGY CENTER	1/10/200	BOILERS	GAS	99.	MMBTU/H	PRODUCE 85,000 LB/HR STEAM EACH		0.00	8 LB/MMBTU	1	-)	+	+ ')	+
							The four natural gas boilers are used to generate the hot water that is used in the lumber kiln drying		1		1				1		1
	1		Four(4) Natural	ias			process. Two boilers each share a common stack for a total of two stacks. In the initial phase of construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln										1
T 0225	CLIMANDIDE ASSET	9/5/201	Boilers - 46	N	1 .	6 MMBTU/H	blocks are completed, the two other natural gas boilers will be constructed and brought online.	C. I C. I C. I		LB/MMBTU			,			,	1
FL-0335	SUWANNEE MILL	9/5/201	MMBtu/hour	Natural Gas	4	MMBIU/H	Finally, the two biomass boilers will be built and brought on line.	Good Combustion Practice	0.039	LB/MMBTU	AVERAGE OF 3	<u> </u>	1	+	+ '	1	+
	MARSHALLTOWN			1					1		ON-HOUR TEST						1 '
*IA-0107	GENERATING STATION	4/14/201	auxiliary boiler	natural gas	60.	mmBtu/hr	fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period	CO catalytic oxidizer	0.016	4 LB/MMBTU	IKUNS		4			1	

Table D-B-2 Carbon Monoxide (CO) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT	INIT PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	ST. JOSEPH ENEGRY		TWO (2) NATURAL GAS AUXILIARY	NATURAL			BOTH BOILERS, LABELED AS B001 AND B002, ARE EQUIPPED WITH LOW NOX BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM										
IN-0158	CENTER, LLC	12/3/2012	BOILERS	GAS	81	0 MMBTU/H	GENERATING UNIT.	GOOD COMBUTSTION PRACTICES	0.083	LB/MMBTU	3 HOURS	6.6	4 LB/H	3 HOURS	1	0	
A-0240	FLOPAM INC.	6/14/2010	Boilers	natural gas	25	1 MMBTU/H		Good equipment design and proper combustion practices	0.93	I B/H	HOURLY MAXIMUM	0.03	7 LB/MMBTU		1	0	
											1 HR BLOCK AVG DOES NOT	-		1 HR BLOCK AVG DOES NOT			
	SALEM HARBOR STATION										APPLY DURING			APPLY DURING			
'MA-0039	REDEVELOPMENT	1/30/2014	Auxiliary Boiler	Natural Gas	81	0 MMBtu/hr	NATURAL GAS FUEL ONLY OPERATION OF LOW-NOX BURNER TECHNOLOGY	Oxidation catalyst	4.3	PPMVD @ 3% O2	SS 3-HOUR	0.003	5 LB/MMBTU	SS		0	
			AUXILLARY	NATURAL			FLUE GAS RECIRCULATION (FGR), GOOD COMBUSTION CONTROLS, MAX HEAT				AVERAGE						
MD-0041	CPV ST. CHARLES	4/23/2014	BOILER	GAS	9:	3 MMBTU/H	INPUT OF 372,000 MMBTU/HR NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER	GOOD COMBUSTION PRACTICES EXCLUSIVE USE OF PIPELINE	0.00	LB/MMBTU	BLOCK	-	0		-	0	
	WILDCAT POINT		AUXILLARY	NATURAL			TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000	QUALITY NATURAL GAS AND GOOL)		3-HOUR BLOCK						
MD-0042	GENERATION FACILITY	4/8/2014	BOILER	GAS	4:	5 MMBTU/H	MMBUT/HR PER 12-MONTH ROLLING PERIOD	COMBUSTION PRACTICES	0.036	LB/MMBTU	AVERAGE	_	0		-	0	
			FGAUXBOILERS:				There are two auxiliary boilers each rated at less than 100 MMBTU/H heat input.										
	THETFORD GENERATING		Two auxiliary boilers < 100 MMBTU/H			MMBTU/H heat in	but Fuel usage limited to not more than 416.3 MMscf of natural sas in each boiler per 12-month				HEAT INPUT. TEST PROTOCOL						
*MI-0410	STATION	7/25/2013	heat input each	natural gas	100	0 each	rolling timeperiod as determined at the end of each month.	Efficient combustion.	0.075	LB/MMBTU	WILL SPECIFY		0			0	
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		Auxiliary Boiler B				One natural gas-fired auxiliary boiler rated at 95 MMBtu/hr fuel heat input (EUAUXBOILERB										
*MI-0412	STREET	12/4/2013	(EUAUXBOILERB)	natural gas	9:	5 MMBTU/H	within flexible group FGAUXBOILERS).	Good combustion practices.	0.07	LB/MMBTU	TEST PROTOCOL		0			0	
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		Auxiliary Boiler A				One natural gas-fired auxiliary boiler rated at 55 MMBTU/hr fuel heat input (EUAUXBOILERA										
*MI-0412	STREET	12/4/2013	(EUAUXBOILERA) SMALL BOILERS	natural gas	5:	5 MMBTU/H	within flexible group FGAUXBOILERS).	Good combustion practices	0.07	LB/MMBTU	TEST PROTOCOL		0			0	
			SMALL BOILERS														
	MINNESOTA STEEL		HEATERS(<100	NATURAL							1 HOUR			1 HOUR			
MN-0070	INDUSTRIES, LLC	9/7/2007	MMBTU/H)	GAS	9	9 MMBTU/H	The amiliant hailes will have a maximum set of heat conseity of 0.1.6 MMPm/h and will be limite		0.00	LB/MMBTU	AVERAGE	8.	2 LB/H	AVERAGE	_	0	
					1		The auxiliary boiler will have a maximum rated heat capacity of 91.6 MMBtu/h and will be limite to natural gas firing only. It will be operated for the purposes of supplying steam during the start-										
			Commercial/Instituti				up of the combined cycle unit.		1								1
	WOODBRIDGE ENERGY		onal size boilers less				The auxiliaryboiler will be equipped with Dry Low-NOx Burners to comply with BACT and	Use of natural gas and good combustion	1		AVERAGE OF						1
NJ-0079	CENTER HESS NEWARK ENERGY	7/25/2012	than 100 MMBtu/hr Boiler less than 100	natural gas	200	0 hours/year	LAER.	practices	3.4	LB/H	THREE TESTS AVERAGE OF	-	0	+	-	0	
NJ-0080	HESS NEWARK ENERGY CENTER		Boiler less than 100 MMBtu/hr	Natural Gas	51.5	9 mmcubic ft/year		use of natural gas a clean fuel	2.45	LB/H	THREE TESTS		0		1	0	
							THE BACT DETERMINATIONS REPORTED HERIN ARE SPECIFICALLY FOR THE										
							TWO HURST BOILERS INSTALLED AT CAESAR'S PALACE. EACH OF THEM HAS A										
							RATED HEAT INPUT OF 35.4 MMBTU/HR. THE PERMITTING ACTION ALSO										
							APPROVED THE INSTALLATION OF A NUMBER OF SMALL BOILERS, ALL OF WHICH HAVE A RATED HEAT INPUT BELOW THE THRESHOLD OF INSTITUTIONAL SIZE										
							HAVE A RATED HEAT INPUT BELOW THE THRESHOLD OF INSTITUTIONAL SIZE. NATURAL GAS IS THE ONLY FUEL USED FOR ALL BOILERS FOR THIS FACILITY.										
	HARRAH'S OPERATING		COMMERCIAL/IN STITUTIONAL-	NATURAL			THE TOTAL INCREASE OF RATED HEAT INPUT FOR ALL THE NEW BOILERS IS 100. MMBTU/HR. THE TWO NEW HURST BOILERS HAVE THE COMBINED RATED HEAT										
NV-0044	COMPANY, INC.	1/4/2007	SIZE BOILERS	GAS	35.4	4 MMBTU/H	INPUT OF 70.8 MMBTU/HR, ACCOUNTING FOR 70% OF THE TOTAL INCREASE. THE FACILITY HAS 125 REGULATED UNITS AND 142 EXEMPT UNITS. UNIT RB013	GOOD COMBUSTION DESIGN	0.036	LB/MMBTU		4	9 PPMVD @ 3% 0	2 3% OXYGEN	0.03	6 LB/MMBTU	
			BOILERS/HEATER S - NATURAL GAS-	NATURAL			THE FACILITY HAS 125 REGULATED UNITS AND 142 EXEMPT UNITS. UNIT RB013 (RITE BOILER, 6.5 MMBTU/HR) IS SELECTED TO SHOW THE BACT										
NV-0047	NELLIS AIR FORCE BASE	2/26/2008	FIRED	GAS			DETERMINATIONS	FLUE GAS RECIRCULATION	0.03	LB/MMBTU		5	0 PPMVD @ 3% 0	22 3% OXYGEN CORRECTED TO	0.03	7 LB/MMBTU	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL	14.2	4 MMBTU/H	UNIT FLOI IS A JOHNSTON BOILER AT FLAMINGO LAS VEGAS. THIS UNIT MAY	FLUE GAS RECIRCULATION	0.070	LB/MMBTU			5 PPMVD @ 3%	CORRECTED TO 3% OXYGEN	0.070	5 LB/MMBTU	
X Y = 0.045		8/20/2009		UAS	14.5	4 MMBTOIT	OPERATE 8,760 HOURS PER YEAR. UNIT BA01 IS A KEWANEE BOILER AT BALLY'S LAS VEGAS. UNIT BA01 IS	PLUE GAS RECIRCULATION	0.070.	LBMMBTC			5 FFM VD (22 376 V			O LIS MINISTO	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL		8 MMBTU/H	IDENTICAL TO UNIT BA02. THE TWO BOILERS ARE SUBJECT TO THE ANNUAL LIMIT OF COMBINED TOTAL OPERATING TIME FOR 10,900 HOURS PER YEAR.	FLUE GAS RECIRCULATION	0.017	LB/MMBTU		,	3 PPMVD @ 3% (CORRECTED TO 3% OXYGEN	0.017	3 LB/MMBTU	
N V-0049		8/20/2009		UAS	10.	8 MMBTU/H		OPERATING IN ACCORDANCE WITH	0.017.	LEMMETO			5 PPMVD (a) 576 V			3 LB/MMB1U	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL	21.2	8 MMBTU/H	UNIT BA03 IS A KIWANEE BOLER AT BALLY'S LAS VEGAS. THE ANNUAL OPERATING TIME IS LIMITED TO 2,920 HOURS PER YEAR.	THE MANUFACTURER'S SPECIFICATION.	0.017	LB/MMBTU		,	3 PPMVD @ 3%	CORRECTED TO 3% OXYGEN	0.017	2 LB/MMBTU	
N V -0049	COMPANT, INC.	8/20/2009	BAUS	UAS	31.5	8 MMBIU/H				LD/MMD1U			3 PPMVD (a) 376 V	02 3% OX 1 GEN	0.017	2 LB/MMB1U	
	HARRAH'S OPERATING		BOILER - UNIT	NATURAL			UNIT CP01 IS A HURST BOILER AT CAESARS PALACE. UNIT CP01 IS IDENTICAL TO UNIT CP02. UNITS CP01 THROUGH CP05 (FIVE BOILERS) ARE SUBJECT TO THE	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S	I					CORRECTED TO	,		
NV-0049	COMPANY, INC.	8/20/2009		GAS	35.	4 MMBTU/H	ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR.	SPECIFICATION	0.0073	LB/MMBTU		2	9 PPMVD @ 3% (3 LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT	NATURAL			UNIT CP03 IS A BURNHAM BOILER AT CAESAR'S PALACE. UNITS CP01 THROUGH CP05 (FIVE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING	OPERATING IN ACCORDANCE WITH	I					CORRECTED TO			
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009		GAS NATURAL	33.4	8 MMBTU/H	CP05 (FIVE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR.	THE MANUFACTURERS SPECIFICATION	0.0075	LB/MMBTU		3	0 PPMVD @ 3% (0.007	5 LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT	NATURAL				OPERATING IN ACCORDANCE WITH	I					CORRECTED TO			
NV-0049	COMPANY, INC.	8/20/2009		GAS	2-	4 MMBTU/H	UNIT CP26 IS A UNILUX BOILER AT CAESAR'S PALACE. THE UNIT IS ALLOWED TO OPERATE UP TO 8.760 HOURS PER YEAR.	THE MANUFACTURER'S SPECIFICATION	0.03	LB/MMBTU		5	0 PPMVD @ 3%			7 LB/MMBTU	
	·						OPERATE UP TO 8.760 HOURS PER YEAR. UNIT PAIS IS A BRYAN BOILER AT PARIS CASINO RESORT. UNIT PAIS IS IDENTICAL TO UNIT PAI6. UNIT PAI4 IS A BRYAN BOILER RATED AT 17.0										
							MMBTU/HR. EACH OF THE THREE BOILERS IS SUBJECT TO THE LIMIT OF ANNUAL	OPERATING IN ACCORDANCE WITH	ı								
NV-0049	HARRAH'S OPERATING	0.00	BOILER - UNIT	NATURAL		1 MMBTU/H	OPERATING TIME FOR 4,380 HOURS PER YEAR. THEY SHARE THE SAME BACT	THE MANUFACTURER'S SPECIFICATION		I DAGGETT			A DIM CUTS CO. A.	CORRECTED TO)	e I DA O COTT	1
N V-0049	COMPANY, INC.	8/20/2009		UAS	2	I MMB1U/H	DETERMINATIONS ON THE PER MMBTU BASIS. UNIT IP04 IS A KEWANEE BOILER AT IMPERIAL PALACE. UNIT IP04 IS IDENTICAL	OPERATING IN ACCORDANCE WITH	0.840	LB/MMBTU		11-	4 PPMVD @ 3% 0			8 LB/MMBTU	_
	HARRAH'S OPERATING		BOILER - UNIT	NATURAL			TO UNIT IP05. EITHER BOILER IS ALLOWED TO OPERATE UP TO 8,760 HOURS PER	THE MANUFACTURER'S						CORRECTED TO			
NV-0049	COMPANY, INC.	8/20/2009		GAS	16.	7 MMBTU/H	YEAR.	SPECIFICATION	0.0074	LB/MMBTU		10	0 PPMVD @ 3% 0	02 3% OXYGEN	0.007	4 LB/MMBTU	-
			BOILERS - UNITS				THE THREE UNITS ARE IDENTICAL NEBRASKA BOILERS, EACH OF WHICH IS		1								
			CC001, CC002, AND CC003 AT	NATURAL			RATED AT 41.64 MMBTU/HR. EACH UNIT IS ALLOWED TO OPERATE 24 HOURS/DAY AND UP TO 5.800 HOURS/ YEAR. THE EMISSION LIMITS REPORTED HEREIN ARE	GOOD COMBUSTION PROACTICES AND LIMITING THE FUEL TO	1					CORRECTED TO	,		1
NV-0050	MGM MIRAGE	11/30/2009	CITY CENTER	GAS	41.6	4 MMBTU/H	BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006.	NATURAL GAS ONLY	0.0184	LB/MMBTU		2	5 PPMVD @ 3% (0.018	4 LB/MMBTU	
			BOILERS - UNITS CC026, CC027 AND				THE THREE UNITS ARE IDENTICAL CATERPILLAR BOILERS, EACH RATED AT 44 MMBTU/HR. EACH UNIT IS SUBJECT TO THE ANNUAL LIMIT OF OPERATING TIME	GOOD COMBUSTION PRACTICES									
			CC028 AT CITY	NATURAL			TO 5,800 HOURS. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR	INCLUDING THE USE OF PROPER	1					CORRECTED TO			1
NV-0050	MGM MIRAGE CAITHNES BELLPORT	11/30/2009	CENTER	GAS NATURAL	4	4 MMBTU/H	MODIFICATION #13 DATED NOVEMBER 30, 2009.	AIR TO FUEL RATIO	0.0148	LB/MMBTU	-	2	0 PPMVD @ 3% 0	2 3% OXYGEN	0.014	8 LB/MMBTU	
NY-0095	ENERGY CENTER		BOILER	GAS	29.	4 MMBTU/H	4800 H/YR	GOOD COMBUSTION PRACTICES	0.036	LB/MMBTU			0			0	
							TWO BOILERS WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION. WITH #2 OIL BACKUP										
	TOLEDO SUPPLIER PARK-		BOILER (2),	NATURAL					1								
OH-0309	PAINT SHOP TITAN TIRE CORPORATION	5/3/2007	NATURAL GAS	GAS NATURAL	20.	4 MMBTU/H	TWO SET OF LIMITS, THIS ONE FOR NATURAL GAS		1.3	LB/H	1	7.	5 T/YR	+	0.08	3 LB/MMBTU	+
OH-0323	OF BRYAN	6/5/2008	BOILER	GAS	50.	4 MMBTU/H			4.15	LB/H		18.1	8 T/YR		8	4 LB/MMSCF	AP-42 FACTOR
NOTE 0250	DENIBLIC CTORY	man	C D-"	Normal C			No. 10. 6. Land Library	Proper burner design and good combustion		LB/MMBTU						0	
*OH-0350	REPUBLIC STEEL	7/18/2012	Steam Boiler	Natural Gas	6:	5 MMBtu/H	Natural Gas-fired stam boiler to vacuum tank degasser	practices	0.04	LB/MMBTU		11.	4 T/YR		1	0	+
	OREGON CLEAN ENERGY	1	l			1	99 MMBTU/H auxillary boiler with low-NOx burners and flue gas re-circulation, burning only	Good combustion practices and using	1					PER ROLLING 1	2-		
	CENTER		Auxillary Boiler AUXILIARY	Natural Gas NATURAL	9	9 MMBtu/H	natural gas. Boiler restricted to 2000 hours of operation per rolling 12-months.	combustion optimization technology	5.45	LB/H		5.4	5 T/YR	MONTHS	0.05	5 LB/MMBTU	+
*OH-0352	1		BOILER	GAS	33.	5 MMBTU/H		GOOD COMBUSTION	5.00	LB/H			0			0	
*OH-0352 OK-0129	CHOUTEAU POWER PLANT										1			1		1	
OK-0129			BOILERS #1 AND	NATURAL		n MMRTITAL	THE BOILERS WILL PROVIDE THE STEAM NEEDED TO OPERATE THE VARIOUS	GOOD COMBUSTION BRACTICES		I B/H	1-HOUR WHOU		n			0	
	PRYOR PLANT CHEMICAL	2/23/2009	BOILERS #1 AND #2 TB-1 Leased Boiler	NATURAL GAS	80	0 MMBTU/H	PIECES OF EQUIPMENT AT THE FACILITY.	GOOD COMBUSTION PRACTICES Ultra-low NOx burners and good	6.6	LB/H	1-HOUR/8-HOUR 365 DAY ROLLING		0	365 DAY ROLLING	-	0	

Table D-B-2 Carbon Monoxide (CO) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

																	4
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	TROUTDALE ENERGY										3-HR BLOCK						
*OR-0050	CENTER, LLC	3/5/2014	Auxiliary boiler	natural gas	39	8 MMBtu/hr		Utilize Low-NOx burners and FGR.	0.04	LB/MMBTU	AVERAGE	0			0		
ı	HICKORY RUN ENERGY		AUXILIARY											12-MONTH			
*PA-0291	STATION	4/23/2013		Natural Gas	4	MMBTU/H			0.036	LB/MMBTU		3.31	T/YR	ROLLING TOTAL	. 0		
ı	BERKS HOLLOW ENERGY										12-MONTH						
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Auxiliary Boiler	Natural Gas	4	MMBtu/hr		Good Combustion Practices	3.31	T/YR	ROLLING TOTAL	0			0		
ı			VACUUM					NATURAL GAS COMBUSTION WITH									
ı			DEGASSER	NATURAL				GOOD COMBUSTION PRACTICES									
	NUCOR STEEL - BERKELEY KLAUSNER HOLDING USA,	5/5/2008	BOILER NATURAL GAS	GAS NATURAL	50.2	MMBTU/H		PER MANUFACTURER'S GUIDANCE	0.061	LB/MMBTU		3.06	LB/H		0.061	LB/MMBTU	
SC-0149	INC	1/3/2013	BOILER EU003	GAS		MMBTU/H			0.039	LB/MMBTU	3-HOUR	0			0		
SC-0149	KLAUSNER HOLDING USA, INC		NATURAL GAS BOILER EU004	NATURAL GAS		MMBTU/H				LB/MMBTU	3-HOUR						T
	KLAUSNER HOLDING USA.	1/3/2013		NATURAL	-	MMBIU/H			0.039	LB/MMB1U	3-HOUR	0			0		+
SC-0149	INC	1/3/2013	BOILER EU005	GAS	4	MMBTU/H			0.039	LB/MMBTU	3-HOUR	0			0		
SC-0149	KLAUSNER HOLDING USA, INC	1/3/2013	NATURAL GAS BOILER EU006	NATURAL GAS		MMBTU/H			0.039	LB/MMBTU	3-HOUR						
	TEXSTAR GAS PROCESS		POWER STEAM	NATURAL							JAROUR				T		+
TX-0501	FACILITY S R BERTRON ELECTRIC	7/11/2006	BOILER	GAS	5	MMBTU/H			7.05	LB/H	3-HR ROLLING	5.91	T/YR		0		+
*TX-0714	GENERATING STATION	12/19/2014	boiler	natural gas	8	MMBtu/hr	operation limitation of 4,000 hours per year	low-NOx burners	0.037	LB/MMBTU	AVERAGE	0			0		
-			Commercial/Instituti onal Size Boilers														
ı	EAGLE MOUNTAIN STEAM		(<100 MMBtu)								ROLLING 3-HR						
*TX-0751	ELECTRIC STATION	6/18/2015	倓 natural gas	natural gas	73	MMBtu/hr			50	PPMVD @ 3% O2	AVERAGE	0			0		
ı	PORT OF BEAUMONT PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size					Good combustion practice to ensure									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	4	MMBtu/hr	Hot oil heater	complete combustion.	50	PPMVD @ 3% O2		0			0		
ı	PORT OF BEAUMONT PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size				Three boilers will be used intermittently to provide steam for heating tanks or railcars as necessary	Good combustion practice to ensure									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	95	7 MMBtu/hr	to reduce viscosity of heavy liquids.	complete combustion.	50	PPMVD @ 3% O2		0			0		
	PORT OF BEAUMONT PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size				Boiler will be operated continuously to maintain system temperatures in the intermittent boilers	Good combustion practice to ensure									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	13	2 MMBtu/hr	and heavy liquid storage tanks.	complete combustion.	50	PPMVD @ 3% O2		0			0		
*WY-0075	CHEYENNE PRAIRIE GENERATING STATION	7/1/ 2014	Auxiliary Boiler	natual gas	26.6	6 MMBtu/h		good combustion	0.0226	LB/MMBTU	3 HOUR AVERAGE		LB/H	3 HOUR AVERAGE			
W1-00/3	Astoria Energy LLC	//10/2014	Auxiliary Boiler	Natural Gas		MMBtu/hr		Clean Fuel		LB/MMBTU	1-hr average		LB/H	1-hour average	0		+
	Footprint Power Salem Harbor																
	Development LP Footprint Power Salem Harbor		Auxiliary Boiler	Natural Gas		MMBtu/hr		Pipeline quality NG/ Oxidation Catalyst	0.28	LB/H PPMVD @ 15%	1-hr average	0.0035	lb/MMBtu	1-hr average	-		+
	Development LP		Auxiliary Boiler	Natural Gas		MMBtu/hr		Pipeline quality NG/ Oxidation Catalyst	4.7	02	1-hr average						
	CPV Valley Energy Center		A	Natural Gas		5 MMBtu/hr		Good combustion controls.	0.0721	LB/MMBTU							
	Wawayanda, NY Cricket Valley Energy Center		Auxiliary Boiler Auxiliary Boiler	Natural Gas		3 MMBtu/hr		Good combustion controls.		LB/MMBTU	1-hr average						+
	Pioneer Valley Energy Center		Auxiliary Boiler	Natural Gas		MMBtu/hr				LB/MMBTU		0.74	LB/H				
	Hess Newark Energy Center		Auxilary Boiler	Natural Gas	66	2 MMBtu/hr			2.45	LB/H							4
ı	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	10	6 MMBTU/hr			0.074	LB/MMBTU	12 month-period	7.83	LB/H	12 month-period			
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	10	6 MMBTU/hr			15.7	T/YR	-				1		+
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	1	MMBTU/hr			0.037	LB/MMBTU	12 month-period	0.55	LB/H	12 month-period			1
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas		MMBTU/hr			2.20	T/YR							
						MMBTU per 12 mo											+
	Kalama Energy Center		Auxiliary Boiler	Natural Gas	15987	orolling			30	PPMVD @ 3% O2	1-hr avg	0.81	LB/H	1-hr avg			+
	LAWRENCE ENERGY CENTER LLC		Auxiliary Boiler	Natural Gas	9	MMBTU/hr			0.084	LB/MMBTU		8.32	LB/H	12 month-period			
	PacifiCorp's Lake Side Power													·			
	Plant PacifiCorp's Lake Side Power		Auxiliary Boiler #1	Natural Gas	61	MMBTU/hr			0.037	LB/MMBTU	3-hr				-		+
	Plant		Auxiliary Boiler #2	Natural Gas	61	MMBTU/hr			0.037	LB/MMBTU	3-hr						1
	Sevier Power Company Power Plant		Auxiliary Boiler #2	Natural Gas		5 Mmbtu/hr			0.0275	LB/MMBTU	3-hr						
			Auxiliary Boilers #1														+
	St. Joseph's Energy Center		and #3	Natural Gas		MMBtu/hr				LB/MMBTU	3-hr		LB/H	3-hr			
	Woodbridge Energy Center York Energy Center Block 2	42170	Auxiliary Boiler Auxiliary Boiler	Natural Gas Natural Gas		MMsef/yr MMBtu/hr				LB/MMBTU lb/MMBtu			LB/H T/YR		-		+
		42170	Auxiliary Doller	ivaturai Gas	<u> </u>	I MANAGUAT			0.06	io MMDiu		15.6	I/IK				+
	MOUNDSVILLE COMBINED							ı		1	1	1	I	1		I	1

Table D-B-3 Volatile Organic Compounds (VOC) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

nny om	FACILITY NAME	PERMIT ISSUANCE DATE	nn o onoo v	PRIMARY	THROUGHPUT		WAR CORNER VOICE	CONTROL METHOD DESCRIPTION	EMISSION	UNIT	AVG TIME	EMISSION LIMIT 2	UNIT	AVG TIME	STANDARAD EMISSION LIMIT	varm.	AVGTIME
RBLCID	BELK CHIP-N-SAW	PERMIT ISSUANCE DATE	60 MMBTU/HR	NATURAL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	LB/MMBTU	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
AL-0312	FACILITY	5/26/201	NATURAL GAS-	GAS	6	MMBTU/H		GOOD COMBUSTION PRACTICES	0.0054	INPUT		0			0	,	
	MIDWEST FERTILIZER		NATURAL GAS	NATURAL				GOOD COMBUSTION PRACTICES AT			3 HOUR		MMCF/12	ROLLING			
IN-0263	COMPANY LLC	3/23/201	AUXILIARY	GAS	218.0	MMBTU/H		ALL TIMES THE BOILERS ARE IN	5.5	LB/MMCF EACH	AVERAGE	1877.39	MONTH EACH	AVERAGE		9	
LA-0307	MAGNOLIA LNG FACILITY	3/21/201	Auxiliary boilers	natural gas	17	1 mm btu/hr		good combustion practices	(0			0		
MI-0423	INDECK NILES, LLC	1/4/201	EUAUXBOILER (Auxiliary Boiler)	natural gas	18	MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fuel heat input.	Good combustion practices.	0.004	LB/MMBTU	TEST PROTOCOL WILL SPECIFY					,	
	HOLLAND BOARD OF		EUAUXBOILER								TEST PROTOCOL						
MI-0424	PUBLIC WORKS - EAST 5TH MEC NORTH, LLC AND MEC	12/5/201	(Auxiliary boiler) EUAUXBOILER	natural gas	83.:	MMBTU/H	One natural gas fired auxiliary boiler rated at 83.5 MMBTU/hr fuel heat input (EUAUXBOILER). A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	Good combustion practices.	0.008	LB/MMBTU	WILL SPECIFY	0			0	1	
*MI-0433	SOUTH LLC	6/29/201	(North Plant):	Natural gas	61.:	MMBTU/H	CTGHRSG train and to provide the required steam to support the startup of the facility, including	Good combustion practices.	0.004	LB/MMBTU	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/20/201	EUAUXBOILER (South Plant):	Natural gas	61	5 MMBTU/h	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the CTGHRSG train and to provide the required steam to support the startup of the facility, including	Good combustion practices.	0.000	LB/MMBTU	HOURLY	١ .				,	
*MI-0433	BELLE RIVER COMBINED	6/29/201	EUAUXBOILER:	Naturai gas	61	MMB1U/B	A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the	Good combustion practices.	0.004	LD/MMB1U	HOURLY	0				1	
*MI-0435	CYCLE POWER PLANT	7/16/201	Auxiliary Boiler	Natural gas	99.	MMBTU/H	CTG/HRSG trains and to provide steam to the steam turbine generator seals. The auxiliary boiler	Good combustion practices	0.008	LB/MMBTU	HOURLY	0.8	LB/H	HOURLY	0		
TX-0813	ODESSA PETROCHEMICAL PLANT	11/22/201	Boilers	natural sas	227	MMBTU/H	2 boilers	Best combustion practices	0.000	LB/MMBTU						,	
	ODESSA PETROCHEMICAL																
TX-0813	PLANT PERDUE GRAIN AND	11/22/201	small Boiler (4) 27 MMBtu/hr	natural gas	39.9	MMBtu/hr		best combustion practices	0.0005	MMBTU/HR		0			0		
VA-0327	OILSEED, LLC	7/12/201	boilers, Natural gas	Natural Gas	2	7 MMBtu/hr		low nox burners	0.1	LB/HR		0.5	lb/hr		0		
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/201	A 71 P . 71	Name I Con	77	8 mmBtu/hr	Annual emission based on 4600 hours/year.	Use of Natural Gas, Good Combustion Practices	0.00	LB/HR			TONS/YEAR		0.000	LB/MMBTU	
	KENAI NITROGEN		Five (5) Waste Heat	Natural Gas	- 77.	, manazaria		Practices				1.42	TONS/TEAR		0.008	LB/MMBTU	
*AK-0083	OPERATIONS	1/6/201	Boilers 3 NATURAL GAS-	Natural Gas	.51	MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.		0.0054	LB/MMBTU	3-HR AVG	0			0		
			FIRED BOILERS														
			WITH ULNB														
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	8/17/200	& EGR (537- 539)	NATURAL GAS	64	MMBTU each	THIS PROCESS IS COVERED UNDER 503-0095-X026.		0.0055	LB/MMBTU	1	0.36	LB/H	1		,	
		317/200	VACUUM		04.				3.0033			0.50			1		
AL-0231	NUCOR DECATUR LLC	6/12/200	DEGASSER BOILER	NATURAL GAS		5 MMBTU/H		low nox burners, use of natural gas	0.0024	LB/MMBTU	1	0.25	LB/H	1		J	
ru-9431	NOCON DECATOR EDC	G12/200		- Carlo	9.	mmB1U/II		tow now outliers, use of natural gas	3.0026	LUMINIDIO	LB/MM SCF OF	0.23	Las II		1		
*AL-0280	LENZING FIBERS, INC.	12/6/201	Natural Gas Fired Broiler #3	Natural Gas	100	MMBTU/Hr		Good combostics sections		LB/MMSCF	NATURAL GAS USED	0,0004	LB/MMBTU	1	1 .	J	
			Natural Gas Fired					Good combustion practices	3.2		USED	0.0034	LB/MMB1U			1	
*AL-0282	LENZING FIBERS, INC.	1/22/201	Boilers (3)	Natural Gas	100	mm btu/hr		Good combustion Practices.	0.0054	LB/MMBTU		0			0		
AR-0090	NUCOR STEEL, ARKANSAS	4/3/200	PICKLE LINE BOILERS, SN-52	NATURAL GAS	124	MMBTU EACH		GOOD COMBUSTION PRACTICE	0.2	LB/H		0.9	T/YR		0.0055	LR/MMRTU	
			ONE GASEOUS-														
			FUELED 99 MMTU/HR														
	PROGRESS BARTOW		AUXILIARY	NATURAL													
FL-0285	POWER PLANT	1/26/200	BOILER TWO 99 8	GAS	99	MMBTU/H			2	GR S/100 SCF		0			0		
			MMBTU/H GAS-														
	FPL WEST COUNTY		FUELED AUXILIARY	NATURAL													
FL-0286	ENERGY CENTER	1/10/200	BOILERS	GAS	99.	MMBTU/H	PRODUCE 85,000 LB/HR STEAM EACH		2	GR S/100 SCF						,	
							The four natural gas boilers are used to generate the hot water that is used in the lumber kiln drying										
							I no four natural gas obtiers are used to generate the not water that is used in the further and anyting process. Two boilers each share a common stack for a total of two stacks. In the initial phase of construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln										
			Four(4) Natural Gas				construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln										
FL-0335	SUWANNEE MILL	9/5/201	Boilers - 46 MMBtu/hour	Natural Gas	4	MMBTU/H	blocks are completed, the two other natural gas boilers will be constructed and brought online. Finally, the two biomass boilers will be built and brought on line.	Good Combustion Practice	0.003	LB/MMBTU						,	
		,,,,,									AVERAGE OF 3						
*IA-0107	MARSHALLTOWN GENERATING STATION	4/14/201	auxiliary boiler	natural ess	60	mmRtu/hr	fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period		0.005	LB/MMBTU	ONE-HOUR TEST RUNS					,	
174-0107	OLIVIA OTTO OTTO	414201	TWO (2)	nuturur gaz	00.	i iiiiii ku iii			0.000	Lismanic	ROND						
	ST. JOSEPH ENEGRY		NATURAL GAS AUXILIARY	NATURAL			BOTH BOILERS, LABELED AS B001 AND B002, ARE EQUIPPED WITH LOW NOX BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM										
*IN-0158	CENTER, LLC	12/3/201	BOILERS	GAS	80	MMBTU/H	GENERATING UNIT.	GOOD COMBUSTION PRACTICES	0.005	LB/MMBTU	3 HOURS	0.4	LB/H	3 HOURS	0	,	
								Good equipment design and proper			NATURAL GAS						
LA-0240	FLOPAM INC.	6/14/201	Boilers	natural gas	25.	MMBTU/H		combustion techniques	0.003	LB/MMBTU	FIRED 1 HR BLOCK	0.008	LB/MMBTU	ALCOHOL FIRED 1 HR BLOCK	0		
											AVG, DOES NOT			AVG, DOES NOT			
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/201	Auxiliary Boiler	Natural Gas	81	MMBtu/hr		oxidation catalyst	11.6	PPMVD @ 3% O2	APPLY DURING	0.005	LB/MMBTU	APPLY DURING SS		,	
	and the state of t	2,30,201					NATURAL GAS FUEL ONLY, OPERATION OF LOW-NOX BURNER TECHNOLOGY,	EXCLUSIVE USE OF NATURAL GAS,	11.0	J 2 (a) 574 O2	3-HOUR	0.003		1	1		
*MD-0041	CPV ST. CHARLES	4/23/201	AUXILLARY BOILER	NATURAL GAS	a.	MMBTU/H	FLUE GAS RECIRCULATION (FGR), GOOD COMBUSTION CONTROLS, MAX HEAT INPUT OF 372,000 MMBTU/HR	AND GOOD COMBUSTION PRACTICES	0.003	LB/MMBTU	AVERAGE BLOCK			1		,	
		423201	1			1			0.002			ľ		1	1	1	
							NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER	THE EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS, LIMITED			1			1			
	WILDCAT POINT		AUXILLARY	NATURAL			TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000	HOURS OF OPERATION, AND GOOD			3-HOUR BLOCK			1			
*MD-0042	GENERATION FACILITY RAY COMPRESSOR	4/8/201	BOILER	GAS	4:	MMBTU/H	MMBUT/HR PER 12-MONTH ROLLING PERIOD	COMBUSTION PRACTICES	0.0033	LB/MMBTU	AVERAGE	0		+	- 0	-	
*MI-0393	STATION STATION	10/14/201	Auxiliary Boiler	natural gas	12.2	MMBTU/H	Boiler provides building heat.		0.05	LB/H	TEST METHOD	0.0041	LB/MMBTU				
*MI-0393	RAY COMPRESSOR STATION	10/14/201	Reboiler (dehydrator with reboiler)	natural gas	4:	MMBTU/H	4.8 MMBTU/H reboiler	Thermal oxidizer	0.0054	LB/MMBTU	TEST METHOD	0		1		,	
		1													1		
			FGAUXBOILERS: Two auxiliary boilers				There are two auxiliary boilers each rated at less than 100 MMBTU/H heat input.				HEAT INPUT:			1			
	THETFORD GENERATING		< 100 MMBTU/F	ı		MMBTU/H heat input	Fuel usage limited to not more than 416.3 MMscf of natural gas in each boiler per 12-month			1	TEST PROTOCOL			1			1
*MI-0410	STATION HOLLAND BOARD OF	7/25/201	heat input each	natural gas	100	each	rolling timeperiod as determined at the end of each month.	Efficient combustion; natural gas fuel.	0.008	LB/MMBTU	WILL SPECIFY	0		+	- 0	1	
	PUBLIC WORKS - EAST 5TH		Auxiliary Boiler B				One natural gas-fired auxiliary boiler rated at 95 MMBtu/hr fuel heat input (EUAUXBOILERB				1			1			
*MI-0412	STREET HOLLAND BOARD OF	12/4/201	(EUAUXBOILERB	natural gas	9:	MMBTU/H	within flexible group FGAUXBOILERS).	Good combustion practices	0.008	LB/MMBTU	TEST PROTOCOL	0		+	- 0	-	
	PUBLIC WORKS - EAST 5TH		Auxiliary Boiler A				One natural gas-fired auxiliary boiler rated at 55 MMBTU/hr fuel heat input (EUAUXBOILERA				1			1			
*MI-0412	STREET	12/4/201	DUAL-FIRED 85.6) natural gas	5:	MMBTU/H	within flexible group FGAUXBOILERS).	Good combustion control	0.008	LB/MMBTU	TEST PROTOCOL	0		+	0		
			DUAL-FIRED 85.6 MMBTU/HR							1	1			1			
	ARCHER DANIELS		WATER-TUBE	NATURAL			BOILER PROVIDES ADDITIONAL STEAM FOR TEH SOYBEAN SOLVENT			1	TEST METHOD			TEST METHOD			
		10/5/201	BOILER NATURAL GAS	GAS NATURAL	85.0	MMBTU/H	EXTRACTION.	GOOD COMBUSTION PRACTICES	0.0055	LB/MMBTU	AVG	0.001	LB/MMBTU	AVG	- 0	1	
MO-0082	MIDLAND-MEXICO				1 22	MMBTU/h			0.81	T/YR		0.19	LB/H		0.0055	LB/MMBTU	
MO-0082 MS-0085		1/31/200	FIRED BOILER	GAS	33												
	MIDLAND-MEXICO DART CONTAINER	1/31/200	FIRED BOILER	GAS	33		The auxiliary boiler will have a maximum rated heat capacity of 91.6 MMBtu/h and will be limited to natural one firing only. It will be concreted for the numbers of supplying steam during the start.										
	MIDLAND-MEXICO DART CONTAINER	1/31/200		GAS	33		The auxiliary boiler will have a maximum rated heat capacity of 91.6 MMBturh and will be limited to natural gas firing only. It will be operated for the purposes of supplying steam during the start- up of the combined cycle unit.										
	MIDLAND-MEXICO DART CONTAINER CORPORATION LLC	1/31/200	Commercial/Instituti	GAS	33		to natural gas firing only. It will be operated for the purposes of supplying steam during the start- up of the combined cycle unit.	U. Oliveri Constant and Constant			AMERICA OF						
MS-0085 NJ-0079	MIDLAND-MEXICO DART CONTAINER CORPORATION LLC WOODBRIDGE ENERGY CENTER					5 MMBtu/hr	to natural gas firing only. It will be operated for the purposes of supplying steam during the start-	Use of Natural Gas and good combustion practices - permit says	0.14	LB/H	AVERAGE OF THREE TESTS	0			0		
MS-0085 NJ-0079	MIDLAND-MEXICO DART CONTAINER CORPORATION LLC WOODBRIDGE ENERGY	7/25/201	Commercial/Instituti		91.		to natural gas firing only. It will be operated for the purposes of supplying steam during the start- up of the combined cycle unit. The auxiliaryboiler will be equipped with Dry Low-NOx Burners to comply with BACT and			4 LB/H		0			0)	

Table D-B-3 Volatile Organic Compounds (VOC) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

				PRIMARY					EMISSION		AVG TIME	EMISSION	AVG TIME	STANDARAD		AVGTIME
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UN	IT PROCESS NOTES	CONTROL METHOD DESCRIPTION	N LIMIT 1	UNIT	CONDITION	LIMIT 2 UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			COMMERCIAL/IN				THE BACT DETERMINATIONS REPORTED HERIN ARE SPECIFICALLY FOR THE YOU HURST BOLLERS INSTALLED AT CASSANS PLACE EACH OF THEM HAS A RATED HEAT INVIL OF 354 MMBTUHE. THE PERMITTING ACTION ALSO APPROVED THE INSTALLATION OF A NUMBER OF SWALL BOLLED, ALL OF WHELD APPROVED THE INSTALLATION OF A NUMBER OF SWALL BOARD AND A STANDARD AND A SWALL OF WHICH AND A SWALL OF THE SWALL OF WHICH AND A SWALL OF THE SWALL OF T									
NV-0044	HARRAH'S OPERATING COMPANY, INC.	1/4/2005	STITUTIONAL-	NATURAL	20	4 MMRTU/H	MMBTU/HR. THE TWO NEW HURST BOILERS HAVE THE COMBINED RATED HEAT	GOOD COMBUSTION DESIGN	0.000	S LB/MMBTU		0.18 I.B/H		0.000	LB/MMBTU	
N V-0044	COMPANT, INC.	1/4/2001	BOILERS/HEATER	UAS	33	4 MMB1U/H	INPUT OF 70.8 MMBTU/HR, ACCOUNTING FOR 70% OF THE TOTAL INCREASE. THE FACILITY HAS 125 REGULATED UNITS AND 142 EXEMPT UNITS. UNIT RB013	GOOD COMBUSTION DESIGN	0.00	LD/MMB1U		0.18 LB/H		0.003	LD/MMB1U	+
NV-0047	NELLIS AIR FORCE BASE	2/26/2008	S - NATURAL GAS FIRED	GAS GAS			(RITE BOILER, 6.5 MMBTU/HR) IS SELECTED TO SHOW THE BACT DETERMINATIONS. THE EMISSION UNIT IS A CLEAVER BROOKS BOILER AT HARRAHS LAS VEGAS.	FLUE GAS RECIRCULATION	0.0063	LB/MMBTU		0.04 LB/H		0.0062	LB/MMBTU	
							UNIT HARR IS IDENTICAL. 10 HARP AND HARD. THE SAME SET OF EMISSION LIMITS APPLIES TO EACH OF THE THREE BOLLERS. THE THREE BOLLERS ARE SUBJECT TO THE LIMIT OF TOTAL ANNUAL. OPERATING TIME FOR 20,000 HOURS PER YEAR. THERE ARE NO BOILERS AT HARRAITS LAS VEGAS, WHICH HAS A THROUGHPUT CAPACITY IN EXCESS OF 10 MMBTUHE. NO BACT DETERMINATIONS FOR ANY EMISSION UNITS AT BILLS GAMBLEN HALL SE ALLON ARE REPORTED HEREIN	OPERATING IN ACCORDANCE WITH	1							
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL	8:	7 MMBTU/H	BECAUSE ALL OF THEM HAVE A VERY SMALL POTENTIAL TO EMIT FOR ANY POLLUTANT.	THE MANUFACTURER'S SPECIFICATION	0.005	4 LB/MMBTU		0.045 J.R/H		0.0054	LB/MMBTU	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL		4 MMBTU/H	UNIT FLOLIS A JOHNSTON BOILER AT FLAMINGO LAS VEGAS. THIS UNIT MAY	FLUE GAS RECIRCULATION		4 LB/MMBTU		0.078 LB/H			LB/MMBTU	
NV-0049		8/20/2005		UAS	14.2	MMB1U/H	OPERATE 8,760 HOURS PER YEAR. UNIT BA01 IS A KEWANEE BOILER AT BALLY'S LAS VEGAS. UNIT BA01 IS	PEUE GAS RECIRCULATION	0.003	+ LD/MMB1U		0.078 LB/H		0.0034	LD/MMD1U	+
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT BA01	NATURAL GAS	16	.8 MMBTU/H	IDENTICAL TO UNIT BA02. THE TWO BOILERS ARE SUBJECT TO THE ANNUAL LIMIT OF COMBINED TOTAL OPERATING TIME FOR 10,900 HOURS PER YEAR.	FLUE GAS RECIRCULATION	0.005	LB/MMBTU		0.09 LB/H		0.0054	LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT	NATURAL			UNIT BA03 IS A KIWANEE BOLER AT BALLY'S LAS VEGAS. THE ANNUAL	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S	1							
NV-0049	COMPANY, INC.	8/20/2009	BA03	GAS	31.2	8 MMBTU/H	OPERATING TIME IS LIMITED TO 2,920 HOURS PER YEAR.	SPECIFICATION FLUE GAS RECIRCULATION AND		4 LB/MMBTU		0.17 LB/H		0.0054	LB/MMBTU	+
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL GAS	35	4 MMBTU/H	UNIT CP01 IS A HURST BOILER AT CAESARS PALACE. UNIT CP01 IS IDENTICAL TO UNIT CP02. UNITS CP01 THROUGH CP05 (TPUE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR.	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION		4 LB/MMBTU		0.19 LB/H		0.0054	LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT	NATURAL			UNIT CP03 IS A BURNHAM BOILER AT CAESAR'S PALACE. UNITS CP01 THROUGH CP05 (FIVE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S	I							
NV-0049	COMPANY, INC.	8/20/2009	CP03	GAS	33.4	8 MMBTU/H	TIME FOR 33,520 HOURS PER YEAR.	SPECIFICATION OPERATING IN ACCORDANCE WITH	0.005	4 LB/MMBTU		0.18 LB/H		0.0054	LB/MMBTU	+
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL	1 .	4 MMBTU/H	UNIT CP26 IS A UNILUX BOILER AT CAESAR'S PALACE. THE UNIT IS ALLOWED TO	THE MANUFACTURERS SPECIFICATION	0.005	4 LB/MMBTU		0.13 LB/H		0.0054	LB/MMBTU	
N V-0049		8/20/2005	november	UAS	1	MMBIU/H	OPERATE UP TO 8,760 HOURS PER YEAR. UNIT IP04 IS A KEWANEE BOILER AT IMPERIAL PALACE. UNIT IP04 IS IDENTICAL	OPERATING IN ACCORDANCE WITH	0.005	#LD/MMB1U		0.13 LB/H		0.0054	LD/MMB1U	+
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT IP04	NATURAL GAS	16	7 MMBTU/H	TO UNIT IP05. EITHER BOILER IS ALLOWED TO OPERATE UP TO 8,760 HOURS PER YEAR.	THE MANUFACTURER'S SPECIFICATION	0.005	LB/MMBTU		0.09 LB/H		0.0053	LB/MMBTU	
			BOILERS - UNITS CC001, CC002, AND CC003 AT	NATURAL			THE THREE UNITS ARE IDENTICAL NEBRASKA BOILERS, EACH OF WHICH IS RATED AT 41.64 MMBTU/HR. EACH UNIT IS ALLOWED TO OPERATE 24 HOURS/DAY AND UP TO 5.800 HOURS/ YEAR. THE EMISSION LIMITS REPORTED HEREIN ARE	GAS ONLY AND GOOD								
NV-0050	MGM MIRAGE	11/30/2009	CITY CENTER BOILERS - UNITS	GAS	41.6	4 MMBTU/H	BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006. THE THREE UNITS ARE IDENTICAL CATERPILLAR BOILERS, EACH RATED AT 44	COMBUSTION PRACTICES	0.002	LB/MMBTU		2.63 LB/D	_	0.0024	LB/MMBTU	
			CC026, CC027 AND CC028 AT CITY	NATURAL			MMBTU/HR. EACH UNIT IS SUBJECT TO THE ANNUAL LIMIT OF OPERATING TIME TO 5,800 HOURS. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR	LIMITING THE FUEL TO NATURAL GAS ONLY AND GOOD								
NV-0050	MGM MIRAGE	11/30/2009	CENTER	GAS	4	4 MMBTU/H	MODIFICATION #13 DATED NOVEMBER 30, 2009.	COMBUSTION PRACTICES	0.005	LB/MMBTU		0.24 LB/H		0.0055	LB/MMBTU	
							TWO BOILERS WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION. WITH #2 OIL BACKUP									
OH-0309	TOLEDO SUPPLIER PARK- PAINT SHOP	5/3/2007	BOILER (2), NATURAL GAS	NATURAL GAS	20	4 MMBTU/H	TWO SET OF LIMITS, THIS ONE FOR NATURAL GAS		0.1	LB/H		0.5 T/YR		0.0054	LB/MMBTU	
OH-0323	TITAN TIRE CORPORATION OF BRYAN	6/5/2008	DOLLED.	NATURAL GAS	50	4 MMBTU/H	, in the second		0.23	7 LB/H		1.18 T/YR				
		7/18/2012	BOILER			is MMRm/H		Proper burner design and good combustion	1	S I B/H		1.52 T/YR				
*OH-0350	REPUBLIC STEEL	7/18/2012	Steam Boiler	Natural Gas	+	5 MMBtu/H	Natural Gas-fired stam boiler to vacuum tank degasser	practices	0.33	S LB/H		1.52 T/YR	_	0		+
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Auxillary Boiler	Natural Gas		9 MMBtu/H	99 MMBTU/H auxillary boiler with low-NOx burners and flue gas re-circulation, burning only natural gas. Boiler restricted to 2000 hours of operation per rolling 12-months.	Good combustion practices and using combustion optimization technologies	0.59	LB/H		0.59 T/YR	PER ROLLING 13 MONTHS	0.006	LB/MMBTU	
OK-0129	CHOUTEAU POWER PLANT		AUXILIARY BOILER	NATURAL GAS		.5 MMBTU/H		GOOD COMBUSTION		4 LB/H		0				
OK-0135	PRYOR PLANT CHEMICAL	2/23/2009	BOILERS #1 AND	NATURAL		n MMRTU/H	THE BOILERS WILL PROVIDE THE STEAM NEEDED TO OPERATE THE VARIOUS	GOOD COMBOSTION		S I B/H						
	TROUTDALE ENERGY			GAS			PIECES OF EQUIPMENT AT THE FACILITY.		-		3-HR BLOCK	0		0		+
*OR-0050	CENTER, LLC	3/5/2014	Auxiliary boiler	natural gas	39	8 MMBtu/hr		Utilize Low-NOx burners and FGR.	0.003	LB/MMBTU	AVERAGE	0		0		+
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	AUXILIARY BOILER	Natural Gas	4	0 MMBTU/H			0.001	LB/MMBTU		0.14 T/YR	12-MONTH ROLLING TOTAL	. 0		
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Auxiliary Boiler	Natural Gas		i0 MMBtu/hr		Use of natural gas	0.14	4 T/YR	BASED ON 12- MONTH ROLLING TOTAL	0		0		
			VACUUM					NATURAL GAS COMBUSTION WITH								
SC-0112	NUCOR STEEL - BERKELEY	5/5/2009	DEGASSER BOILER	NATURAL GAS	50.5	1 MMBTU/H		GOOD COMBUSTION PRACTICES PER MANUFACTURER'S GUIDANCE	0.0026	6 LB/MMBTU						J
SC-0112	KLAUSNER HOLDING USA, INC		NATURAL GAS BOILER EU003	NATURAL		6 MMBTU/H		Good combustion practices and limited use	8	3 LB/MMBTU	3-HOUR AVERAGE			1 .		+
	KLAUSNER HOLDING USA,		NATURAL GAS	GAS NATURAL			+	of fuel oil Good combustion practices and limited use	e			0		1 0		+
SC-0149	INC KLAUSNER HOLDING USA,		BOILER EU004 NATURAL GAS	GAS NATURAL		6 MMBTU/H		of fuel oil Good combustion practices and limited use	e .	LB/MMBTU	3-HOUR	0		0		+
SC-0149	INC KLAUSNER HOLDING USA.	1/3/2013	BOILER EU005 NATURAL GAS	GAS NATURAL	+	6 MMBTU/H	+	of fuel oil Good combustion practices and limited use	0.003	LB/MMBTU	3-HOUR	0		0		+
SC-0149	INC	1/3/2013	BOILER EU006	GAS	4	6 MMBTU/H	THE CONSTRUCTION PERMIT AUTHORIZES THE MODIFICATION TO THE TWO	of fuel oil	0.003	LB/MMBTU	3-HOUR	0		0		\perp
			BOILERS (BL01)	NATURAL		. La communi	EXISTING BOILERS BY ADDING LARGER BURNERS. THIS PROCESS AND									
*SC-0160	US8 FACILITY TEXSTAR GAS PROCESS			GAS NATURAL		.6 MMBTU/H	POLLUTANT INFORMATION IS FOR ONE BOILER			8 LB/H	 	0.0054 LB/MMBTU		1 0		+
TX-0501	FACILITY	7/11/2006	BOILER Commercial/Instituti	GAS	9	3 MMBTU/H			0.46	6 LB/H	-	0.38 T/YR		0		+
	EAGLE MOUNTAIN STEAM		onal Size Boilers (<100 MMBtu)													
*TX-0751	ELECTRIC STATION PORT OF BEAUMONT	6/18/2015	– natural gas Commercial/Instituti	natural gas	73	3 MMBtu/hr			-	4 PPMVD @ 3% O2	1-HR AVG	0		0		+
*TX-0772	PETROLEUM TRANSLOAD TERMINAL (PRPTT)	11/201/	onal-Size Boilers/Furnaces	motored one		ii) MMRtu/hr	Hot oil bester	Good combustion practice to ensure complete combustion.	0.0	4 T/YR						
1 A-0//2	PORT OF BEAUMONT	11/6/2015	Commercial/Instituti	natural gas	 	o www.nem.ne			0.94	1/1R		0		† °		+
*TX-0772	PETROLEUM TRANSLOAD TERMINAL (PBPTT) PORT OF BEAUMONT	11/6/2015	onal-Size Boilers/Furnaces Commercial/Instituti	natural gas	95	7 MMBtu/hr	Three boilers will be used intermittently to provide steam for heating tanks or railcars as necessary to reduce viscosity of heavy liquids.	Good combustion practice to ensure complete combustion.	5.42	2 T/YR		0		0		
*TX-0772	PETROLEUM TRANSLOAD TERMINAL (PBPTT)	11/6/2014	onal-Size Boilers/Furnaces	natural gas	13	.2 MMBtu/hr	Boiler will be operated continuously to maintain system temperatures in the intermittent boilers and heavy liquid storage tanks.	Good combustion practice to ensure complete combustion.	0.5	3 T/YR		0				
1 A*0//2	LEGITIVAL (FBF 11)	11/0/2013	LOCACIN FUITACES	I maturar gas	13	- MADIUM	una seary seque see age talks.	peomptes combustion.	0	J K		- Y		1 0		

Table D-B-3 Volatile Organic Compounds (VOC) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

				PRIMARY					EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNIT		LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
*WY-0075	CHEYENNE PRAIRIE GENERATING STATION	844,004	Auxiliary Boiler	natual eas		MMBtu/h				LB/MMBTU	3 HOUR AVERAGE		LB/H	3 HOUR AVERAGE			
*WY-00/5	Astoria Energy LLC	//16/2014		Natural Gas		MMBtu/hr		good combustion practices Clean Fuel		LB/MMBTU	1-hr average	0.1	LB/H	AVERAGE	0		
	Footprint Power Salem		Auxiliary Boller	Naturai Gas	99	MIMDU/III		Clean Fuei	0.002	LD/MMD1U	1-nr average						
	Harbor Development LP		Auxiliary Boiler	Natural Car	90	MMBtu/hr		Pipeline quality NG		LB/H	1-hr average	0.005	lb/MMBtu	1-hr average			
-	Footprint Power Salem		Auxiliary Boller	Naturai Gas	80	NIVIDIU/III		Fipeline quanty NG	0.4	PPMVD @ 15%	1-tir average	0.003	10/WWDtu	1-iir average			
	Harbor Development LP		Auxiliary Boiler	Natural Gas	90	MMBtu/hr		Pipeline quality NG	11.8		1-hr average						
-	CPV Valley Energy Center		Auxiliary Boller	Naturai Gas	80	WIWIDIU/III		Fipeline quanty NG	11.0	02	1-nr average						
	Wawayanda, NY		Auxiliary Boiler	Natural Gas	73.5	MMBtu/hr		Good combustion controls.	0.0038	LB/MMBTU	1-hr average						
	Wawayanaa, 111		ruannary Dones	Truturui Gus	75.5			Cood Companion Controls	0.0050	LDMMDTC	1 in average						
	Cricket Valley Energy Center		Auxiliary Boiler	Natural Gas	48 63	MMBtu/hr			0.0015	LB/MMBTU							
	, , , , , , , , , , , , , , , , , , , ,		,														
	Hess Newark Energy Center		Auxilary Boiler	Natural Gas	66.2	MMBtu/hr		Use of natural gas	0.27	LB/H							
	SUNBURY GENERATION																
	LP		Auxiliary Boiler	Natural Gas	106	MMBTU/hr			0.005	LB/MMBTU	12 month-period	0.57	LB/H	12 month-period			
	SUNBURY GENERATION										· ·			1			
	LP		Auxiliary Boiler	Natural Gas	106	MMBTU/hr			1.1	T/YR							
	SUNBURY GENERATION																
	LP		Auxiliary Boiler	Natural Gas	15	MMBTU/hr			0.00€	LB/MMBTU	12 month-period	0.83	LB/H	12 month-period			
	SUNBURY GENERATION																
	LP		Auxiliary Boiler	Natural Gas	15	MMBTU/hr		Use of natural gas	0.34	T/YR							
	LAWRENCE ENERGY																
	CENTER LLC		Auxiliary Boiler	Natural Gas	99	MMBTU/hr			0.0055	LB/MMBTU		0.545	LB/H	12 month-period			
	PacifiCorp's Lake Side		Auxiliary Boiler														
	Power Plant			Natural Gas	61.2	MMBTU/hr			0.00€	LB/MMBTU	3-hr						
			Auxiliary Boilers														
	St. Joseph's Energy Center			Natural Gas		MMBtu/hr				LB/MMBTU	3-hr		LB/H	3-hr			
	Woodbridge Energy Center		Auxiliary Boiler	Natural Gas		MMBtu/hr		Good combustion practices		LB/MMBTU			LB/H				
	York Energy Center Block 2	42170	Auxiliary Boiler	Natural Gas	61	MMBtu/hr		Use of natural gas	0.004	lb/MMBtu		1.1	T/YR				
	MOUNDSVILLE COMBINED																
	CYCLE POWER PLANT	41773	Auxiliary Boiler	Natural Gas	100	MMBtu/hr			0.6	LB/H		0.6	T/YR				

									EMISSION		AVGTIME	EMISSION		AVGTIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME OKEECHOBEE CLEAN	PERMIT ISSUANCE DATE	PROCESS NAME Auxiliary Boiler.	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	unit er S/100 sef natural	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
FL-0356	ENERGY CENTER	3/9/2016	99.8 MMBtu/hr	Natural gas	99.	8 MMBtu/hr	Fires only natural gas with a sulfur content of 2 gr S/100 SCF. Limited to 2000 hr/yr.	Use of clean fuels		2 gas		1	0 % OPACITY			0	
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	99.8 MMBtu/hr auxiliary boiler	Natural gas	993	8 MMBtu/hr	Fueled only with natural gas with sulfur content of 2 gr S/100 scf	Clean fuels		gr S/100 scf natural 2 gas		20	% opacity			0	
			NATURAL GAS AUXILIARY					PROPER DESIGN AND GOOD					T				
			BOILERS (EU-					COMBUSTION PRACTICES AT ALL									
IN-0263	MIDWEST FERTILIZER COMPANY LLC	3/23/2017	012A, EU-012B, EU	NATURAL GAS	218	6 MMBTU/H		TIMES THE BOILERS ARE IN OPERATION	1	9 LB/MMCF EACH	3 HOUR AVERAGE		0			0	
111-0203	COMPLY LEC	3/23/2011	01207	TOTAL CLE	210	o mandioni		or Electricit.	1.	JEDIMINET EXCIT	TEST PROTOCOL						
			EUAUXBOILER								WILL SPECIFY						
MI-0423	INDECK NILES, LLC	1/4/2017	(Auxiliary Boiler)	natural gas	18	2 MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fuel heat input.	Good combustion practices.	0.00:	5 LB/MMBTU	AVG TIME		0			0	
	HOLLAND BOARD OF										TEST PROTOCOL						
MI-0424	PUBLIC WORKS - EAST 5TH STREET	12/5/2016	EUAUXBOILER (Auxiliary boiler)	natural gas	83	5 MMBTU/H	One natural cas fired auxiliary beiler rated at 83.5 MMRTU/hr fisel heat input (FUAUXROUER)	Good combustion practices	0.001	8 LB/MMBTU	WILL SPECIFY AVG TIME		0			0	
	DIKLLI	1232010		Indicator agas	0.5.	J MMDTO/II	One natural gas fired auxiliary boiler rated at 83.5 MMBTU/hr fuel heat input (EUAUXBOILER). A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	Cool Companion practices.	0.001	o LLE MINDIO	TO TIME						
	MEC NORTH, LLC AND MEC		EUAUXBOILER (North Plant):				CTGHRSG train and to provide the required steam to support the startup of the facility, including but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low										
*MI-0433	SOUTH LLC	6/29/2018	Auxiliary Boilder	Natural gas	61.	5 MMBTU/H	NOx burners (LNB) and flue gas recirculation (FGR). A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	Good combustion practices.	0.00	5 LB/MMBTU	HOURLY		0			0	
			EUAUXBOILER				CTGHRSG train and to provide the required steam to support the startup of the facility, including										
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	(South Plant): Auxiliary Boiler	Natural cas	61:	5 MMBTU/h	but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low NOx burners (LNB) and flue gas recirculation (FGR).	Good combustion practices.	0.00	S LB/MMBTU	HOURLY					0	
			,				A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the										
	BELLE RIVER COMBINED		EUAUXBOILER:				A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the CTG/HRSG trains and to provide steam to the steam turbine generator seals. The auxiliary boiler										
*MI-0435	CYCLE POWER PLANT PSEG FOSSIL LLC	7/16/2018	Auxiliary Boiler	Natural gas	99.	9 MMBTU/H	is equipped with low NOx burners (LNB) and flue gas recirculation (FGR).	Good combustion practices, low sulfur fuel	0.00	7 LB/MMBTU	HOURLY AV OF THREE	0	7 LB/H	HOURLY		0	
	SEWAREN GENERATING		Auxiliary Boiler				Maximum heat input rate for natural gas fired auxiliary boiler is 80 MMBtu/hr (HHV) permitted to				ONE HOUR						
NJ-0084	STATION	3/10/2016	firing natural gas	natural gas	68	7 MMCFT/YR	operate for 8760 hrs/yr.	Use of natural gas a clean burning	0.2	6 LB/H	STACK TESTS AV OF THREE	-	0	+	+	0	
	A CORPANDA PROPERTY CO.							VIOLE OF STREET, WITH A STREET			ONE H STACK				1		
NJ-0085	MIDDLESEX ENERGY CENTER, LLC	7/19/2016	AUXILIARY BOILER	Natural GAS	400	0 H/YR		USE OF NATURAL GAS A CLEAN BURNING FUEL	0.18	1 LB/H	TESTS INITIALLY		0		1	0	
	CRICKET VALLEY ENERGY							good combustion practiced and pipeline									
NY-0103	CENTER CPV FAIRVIEW ENERGY	2/3/2016	Auxiliary boiler	natural gas		0 MMBTU/H	Limited to 4,500 H/YR	quality natural gas		5 LB/MMBTU	1.11	<u> </u>	0	12-MONTH	+	U	+
*PA-0310	CENTER HARRISON COUNTY	9/2/2016	Auxilary boiler	Natural Gas	92.	4 MMBtu/hr	Operation of the auxiliary boiler shall not exceed 4000 hrs in any continuous 12-month period.	ULSD and good combustion practices Use of Natural Gas. Good Combustion	0.00	7 LB/MMBTU		1.2	9 TPY	ROLLING BASIS		0	
*WV-0029	POWER PLANT	3/27/2018	Auxiliary Boiler	Natural Gas	773	8 mmBtu/hr	Annual emission based on 4600 hours/year.	Practices	0.0	6 LB/HR		1.3	8 TONS/YEAR		0.00	8 LB/MMBTU	
*WV-0031	MOCKINGBIRD HILL COMPRESSOR STATION	6/14/2018	WH-1 - Boiler	Natural Gas	8.7.	2 mmBtu/hr	Used to generated heat for the new building associated with the project during the heating season.	Limited to natural gas.	1 .	0			0		0.2	8 TON/YEAR	12-MONTH ROLLING
WY-0001	COMPACIONAL DIVITION	0.14.2010	VACUUM	Tutula Cas	0.2	L IIIIII/W/III	to sea to generated near tot the new outstand absoluted with the project during the meaning season.	Little of Internal gar.								I COLUMN	ROLLING.
AL-0231	NUCOR DECATUR LLC	6/12/2007	DEGASSER BOILER	NATURAL GAS	9.	5 MMBTU/H			0.007	6 LB/MMBTU		0.7	2 LB/H			0	
											LB/MM SCF OF NATURAL GAS						
*AL-0280	LENZING FIBERS, INC.	12/6/2011	Natural Gas Fired Broiler #3	Natural Gas	10	0 MMBTU/Hr		Good Combustion Practices	7.0	6 LB/MMSCF	USED USED	0.00	5 LB/MMBTU			0	
*AL-0282	LENZING FIBERS, INC.	1/22/2014	Natural Gas Fired Boilers (3)	Natural Gas	10	0 mm btu/hr		Good combustion Practices.	0.007	S LB/MMBTU			0			0	
			TWO (2)														
	ST. JOSEPH ENEGRY		NATURAL GAS AUXILIARY				BOTH BOILERS, LABELED AS B001 AND B002, ARE EQUIPPED WITH LOW NOX BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM	GOOD COMBUSTION PRACTICES									
*IN-0158 MD-0040	CENTER, LLC CPV ST CHARLES	12/3/2012	BOILERS BOILER	NATURAL GAS NATURAL GAS	8	0 MMBTU/H 3 MMBTU/H	GENERATING UNIT. AUXILIARY BOILER	AND FUEL SPECIFICATIONS	0.007	5 LB/MMBTU 5 LB/MMBTU	3 HOURS 3-HR AVERAGE	0	6 LB/H	3 HOURS		0	
MID-0040	CPV SI CHARLES	11/12/2008		NATURAL GAS	9.	3 MMB1U/II	NATURAL GAS FUEL ONLY, OPERATION OF LOW-NOX BURNER TECHNOLOGY,	USE OF PIPELINE QUALITY	0.00.	S LB/MMB1U			0			0	
*MD-0041	CPV ST. CHARLES	4/23/2014	AUXILLARY BOILER	NATURAL GAS		3 MMBTU/H	FLUE GAS RECIRCULATION (FGR), GOOD COMBUSTION CONTROLS, MAX HEAT	NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.00	5 LB/MMBTU	3-HOUR AVERAGE		0			0	
3115-0041	WILDCAT POINT	425201	AUXILLARY	TOTAL GEO	, and a	J MAD TO TE	INPUT OF 372,000 MMBTU/HR NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000	COMBUSTION PRACTICES EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD		Lisminist	3-HOUR BLOCK						
*MD-0042	GENERATION FACILITY	4/8/2014	BOILER	NATURAL GAS	4	5 MMBTU/H	TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000 MMBUT/HR PER 12-MONTH ROLLING PERIOD	COMBUSTION PRACTICES	0.007:	5 LB/MMBTU	3-HOUR BLOCK AVERAGE		0			0	
			FGAUXBOILERS:				There are two auxiliary boilers each rated at less than 100 MMBTU/H heat input.										
			Two auxiliary boilers								HEAT INPUT;						
*MI-0410	THETFORD GENERATING STATION	7/25/2013	< 100 MMBTU/H heat input each	natural gas	10	MMBTU/H heat input	Fuel usage limited to not more than 416.3 MMscf of natural gas in each boiler per 12-month rolling timeperiod as determined at the end of each month.	Efficient combustion; natural gas fuel.	0.001	8 LB/MMBTU	TEST PROTOCOL WILL SPECIFY		0			0	
331-0410	HOLLAND BOARD OF	112012013	Auxiliary Boiler B	initiatin gaz		o cucii		Linear Company, mannings for.	0.001	LDMINDIC	WILL DI LCII I						
*MI-0412	PUBLIC WORKS - EAST 5TH STREET	12/4/2013	(EUAUXBOILERB)	natural gas	9.	5 MMBTU/H	One natural gas-fired auxiliary boiler rated at 95 MMBtu/hr fuel heat input (EUAUXBOILERB within flexible group FGAUXBOILERS).	Good combustion practices	0.001	8 LB/MMBTU	TEST PROTOCOL		0			0	
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		Auxiliary Boiler A				One natural gas-fired auxiliary boiler rated at 55 MMBTU/hr fuel heat input (EUAUXBOILERA										
*MI-0412	STREET	12/4/2013	(EUAUXBOILERA)	natural gas	5.	5 MMBTU/H	One natural gas-tired auxiliary obter rated at 33 MMBI 10/hr tuet neat tiplut (EUAUABOILERA within flexible group FGAUXBOILERS). The auxiliary boiler will have a maximum rated heat capacity of 91.6 MMBtu/h and will be limited.	Good combustion practices	0.001	8 LB/MMBTU	TEST PROTOCOL		0			0	
							to natural gas firing only. It will be operated for the purposes of supplying steam during the start-										
			Commercial/Instituti				up of the combined cycle unit.			1					1		
	WOODBRIDGE ENERGY		onal size boilers less				The auxiliaryboiler will be equipped with Dry Low-NOx Burners to comply with BACT and				AVERAGE OF				1		
NJ-0079	CENTER HESS NEWARK ENERGY	7/25/2012	than 100 MMBtu/hr Boiler less than 100	natural gas	91.	6 MMBtu/hr	LAER.	use of Natural gas	0.1	7 LB/H	THREE TESTS AVERAGE OF		0		+	0	
NJ-0080	CENTER CENTER	11/1/2012	MMBtu/hr	Natural Gas	51.5	9 mmcubic ft/year		use of natural gas a clean fuel	0.2	2 LB/H	THREE TESTS		0			0	
							TWO BOILERS WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION. WITH #2 OIL BACKUP								1		
	TOLEDO SUPPLIER PARK-		BOILER (2),	NATURAL GAS		4 MMBTU/H										9 LB/MMBTU	
OH-0309	PAINT SHOP TITAN TIRE CORPORATION		NATURAL GAS				TWO SET OF LIMITS, THIS ONE FOR NATURAL GAS			4 LB/H		0.2	7 LB/YR	+	0.001	9 LB/MMBTU	+
OH-0323	OF BRYAN KLAUSNER HOLDING USA,	6/5/2008	BOILER NATURAL GAS	NATURAL GAS	50.	4 MMBTU/H			0.00	2 LB/MMBTU			0	-	+	0	-
SC-0149	INC	1/3/2013	BOILER EU003	NATURAL GAS	4	6 MMBTU/H			0.00	5 LB/MMBTU	3-HOUR		0			0	
SC-0149	KLAUSNER HOLDING USA, INC	1/3/2013	NATURAL GAS BOILER EU003	NATURAL GAS	4	6 MMBTU/H			0.00	2 LB/MMBTU	3-HOUR		0			0	
SC-0149	KLAUSNER HOLDING USA,		NATURAL GAS BOILER EU004	NATURAL GAS		6 MMRTU/H				S I B/MMRTU	3-HOUR				1		
	INC KLAUSNER HOLDING USA,		NATURAL GAS						-				0	+	+	0	
SC-0149	INC KLAUSNER HOLDING USA.	1/3/2013	BOILER EU004 NATURAL GAS	NATURAL GAS	4	6 MMBTU/H			0.00	2 LB/MMBTU	3-HOUR		0		+	0	
SC-0149	INC	1/3/2013	BOILER EU005	NATURAL GAS	4	6 MMBTU/H			0.00	5 LB/MMBTU	3-HOUR		0			0	
SC-0149	KLAUSNER HOLDING USA, INC	1/3/2013	NATURAL GAS BOILER EU005	NATURAL GAS	4	6 MMBTU/H			0.00	2 LB/MMBTU	3-HOUR		0			0	
	KLAUSNER HOLDING USA,		NATURAL GAS												1		
	HNC	1/3/2013	BOILER EU006 NATURAL GAS	NATURAL GAS	4	6 MMBTU/H				5 LB/MMBTU	3-HOUR		0	1	+	U	1
SC-0149	KLAUSNER HOLDING USA,																1
SC-0149 SC-0149	INC	1/3/2013	BOILER EU006	NATURAL GAS	4	6 MMBTU/H		Clean Evel	0.00	2 LB/MMBTU	3-HOUR		0	1 home		0	
	KLAUSNER HOLDING USA, INC Astoria Energy LLC Footprint Power Salem Harbor Development LP	1/3/2013	BOILER EU006 Auxiliary Boiler	NATURAL GAS Natural Gas	9	6 MMBTU/H 9 MMBtu/hr 0 MMBtu/hr		Clean Fuel Pipeline quality NG	0.00:	2 LB/MMBTU 5 LB/MMBTU	3-HOUR 1-hr average		0 5 LB/H 5 lb/MMBtu	1-hour average		0	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1			EMISSION LIMIT 2	UNIT		STANDARAD EMISSION LIMIT	AVG TIME CONDITION
	CPV Valley Energy Center Wawayanda, NY		Auxiliary Boiler	Natural Gas	73.5	5 MMBtu/hr	Low sulfur fuel.	0.0063	LB/MMBTU	1-hr average					
	Hess Newark Energy Center		Auxilary Boiler	Natural Gas	66.2	2 MMBtu/hr		12.62	LB/H	1 time stack test					
	LAWRENCE ENERGY														
	CENTER LLC		Auxiliary Boiler	Natural Gas	99	9 MMBTU/hr		0.0076	LB/MMBTU		0.76	LB/H			
			Auxiliary Boilers #1												
	St. Joseph's Energy Center		and #2	Natural Gas	80	0 MMBtu/hr		0.0075	LB/MMBTU	3-hr	0.6	LB/H	3-hr		
	York Energy Center Block 2	42170	Auxiliary Boiler	Natural Gas	6	1 MMBtu/hr		0.005	lb/MMBtu		1.3	T/YR			
	MOUNDSVILLE COMBINED CYCLE POWER PLANT		Auxiliary Boiler	Natural Gas	101	0 MMBtu/hr		0.5	LB/H		0.5	T/YR			

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	DANIA BEACH ENERGY		99.8 MMBtu/hr	İ						gr S/100 scf natural							
*FL-0363	CENTER	12/4/201	NATURAL GAS	Natural gas	99.8	MMBtu/hr	Fueled only with natural gas.	Clean fuels	2	gas		20	% OPACITY		-		
			AUXILIARY					PROPER DESIGN AND GOOD									
	MIDWEST FERTILIZER		BOILERS (EU-	NATURAL				COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN			3 HOUR						
IN-0263	COMPANY LLC	3/23/201	012A, EU-012B, EU 012C)	GAS	218.6	MMBTU/H		OPERATION.	7.6	LB/MMCF EACH					1 .	,	
	LAKE CHARLES		Auxiliary Boilers and	d			Supplement fuel: fuel gas	good engineering design and proper									
LA-0305 LA-0307	METHANOL FACILITY MAGNOLIA LNG FACILITY		Superheaters Auxiliary boilers	Natural Gas	171	mm btu/hr	Boilers: 225 MM BTU/hr each	operation good combustion practices		-		0			1		
								,									
	DTE GAS COMPANY - MILFORD COMPRESSOR						Two natural gas-fired auxiliary boilers, each rated at 6 MMBTU/H fuel heat input. The boilers are identified as EUAUXBOIL2 and EUAUXBOIL3 within the flexible group FGAUXBOILERS.	Good combustion practices and low sulfur									
MI-0420	STATION	6/3/2010	FGAUXBOILERS	Natural gas	6	MMBTU/H	The boilers are subject to 40 CFR Part 63 Subpart DDDDD, which requires tune ups.	fuel (pipeline quality natural gas).	0.0075	LB/MMBTU	TEST PROTOCOL	0					
MI-0423	INDECK NILES, LLC	1/4/201	EUAUXBOILER (Auxiliary Boiler)	natural gas	182	MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fuel heat input.	Good combustion practices.	1 34	LB/H	HOURLY, TEST PROTOCOL				1 .	J	
		174/201	(Auxiliary Bollet)	naturai gas	102	WINIBTO/II	One natural gas-med auxinary bonter fated at 162 MWHS LOTT fuel fieat input.	Good Combustion practices.	1.30	LIST					T .	1	
	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		EUAUXBOILER								TEST PROTOCOL WIL SPECIFY						
MI-0424	STREET	12/5/2016	(Auxiliary boiler) FGAUXBOILERS	natural gas	83.5	MMBTU/H	One natural gas fired auxiliary boiler rated at 83.5 MMBTU/hr fuel heat input (EUAUXBOILER).	Good combustion practices.	0.007	LB/MMBTU	AVG TIME	0			1 .	,	
			FGAUXBOILERS (6 auxiliary boilers														
			EUAUXBOIL2A.														
			EUAUXBOIL3A,				Four natural gas-fired auxiliary boilers, each rated at 3 MMBTU/H fuel heat input										
	DTE GAS COMPANY -		EUAUXBOIL2B, EUAUXBOIL3B,				(EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B and EUAUXBOIL3B in FGAUXBOILERS) and two natural gas-fired auxiliary boilers, each rated at 1 MMBTU/H fuel										
	MILFORD COMPRESSOR		EUAUXBOIL2C.				heat input (ELIALIYROIL 2C and ELIALIYROIL 3C in EGALIYROIL EPS). The boilers are	Good combustion practices and low sulfur									
MI-0426	STATION	3/24/201	EUAUXBOIL3C)	Natural gas	3	MMBTU/H	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	fuel (pipeline quality natural gas).	0.52	LB/MMSCF	EACH BOILER	0			-		
			EUAUXBOILER				CTGHRSG train and to provide the required steam to support the startup of the facility, including										
	MEC NORTH, LLC AND MEC		(North Plant):	l			but not limited to stoom for ensering STG code ato. The envilors beller is conjugate with low		1					1			
*MI-0433	SOUTH LLC	6/29/2011	Auxiliary Boilder	Natural gas	61.5	MMBTU/H	NOx burners (LNB) and flue gas recirculation (FGR). A natural sas-fired auxiliary boiler, rated at 61.5 MMRTLI/H (HHV) to facilitate startum of the	Good combustion practices	0.46	LB/H	HOURLY	0		+	 	1	+
			EUAUXBOILER				Nox burners (LNB) and the gas recirculation (FGR). A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the CTGHRSG train and to provide the required steam to support the startup of the facility, including		1					1			
	MEC NORTH, LLC AND MEC		(South Plant):			L O CONTUI	but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low								l .		
*MI-0433	SOUTH LLC	6/29/2011	Auxiliary Boiler	rvaturaí gas	61.5	MMBTU/h	NOx burners (LNB) and flue gas recirculation (FGR).	Good combustion practices.	0.46	LB/H	HOURLY	- 0		+	+ '	1	
							A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the										
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2011	EUAUXBOILER: Auxiliary Boiler	Natural gas	99.0	MMBTU/H	CTG/HRSG trains and to provide steam to the steam turbine generator seals. The auxiliary boiler is equipped with low NOx burners (LNB) and flue gas recirculation (FGR).	Good combustion practices, low sulfur fuel	0.00	LB/MMBTU	HOURLY	0.7	LB/H	HOURLY	1 .	J	
	PSEG FOSSIL LLC	77102011	1	Tururur gaz	77.7	initial Cont		Good comounton practices, low surface race	0.00	LDMMDTC	HOURLY AV OF THREE	0.7	Lizzi	HOURET			
NI-0084	SEWAREN GENERATING STATION	2/10/2014	Auxiliary Boiler firing natural gas	natural gas	90	MMBtu/hr	Maximum heat input rate for natural gas fired auxiliary boiler is 80 MMBtu/hr (HHV) permitted to operate for 8760 hrs/yr.	use of natural gas a clean burning fuel		LB/H	ONE HOUR STACK TESTS	Ι ,			1 .	,	
NJ-0084	STATION	3/10/2010	nring naturai gas	naturai gas	80	MMBWIF	operate for 8/60 nrs/yr.	use of natural gas a clean burning fuel	0.4	LD/II	AV OF THREE				<u> </u>	1	+
	MIDDLESEX ENERGY		AUXILIARY					USE OF NATURAL GAS A CLEAN			ONE H STACK TESTS						
NJ-0085	CENTER, LLC	7/19/2016	BOILER	Natural GAS	97.5	MMBtu/hr		BURNING FUEL	0.488	LB/H	INITIALLY				1 ,	,	
*PA-0310	CPV FAIRVIEW ENERGY													12-MONTH			
*PA-0310	CENTER MOCKINGBIRD HILL	9/2/2016	Auxilary boiler	Natural Gas		MMBtu/hr	Operation of the auxiliary boiler shall not exceed 4000 hrs in any continuous 12-month period.	ULSD and good combustion practices	0.007	LB/MMBTU		1.29	TPY	ROLLING BASIS	-	1	+
*WV-0031	COMPRESSOR STATION	6/14/2011	WH-1 - Boiler	Natural Gas	8.72	mmBtu/hr	Used to generated heat for the new building associated with the project during the heating season.	Limited to natural gas	(0			0.21	TON/YEAR	
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2019	Five (5) Waste Heat Boilers	Natural Gas	50	MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.		0.0074	LB/MMBTU	3-HR AVG				1 .	J	
	KENAI NITROGEN		Five (5) Waste Heat												<u> </u>	1	
*AK-0083	OPERATIONS	1/6/201:	Boilers 3 NATURAL GAS-	Natural Gas	50	MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.	Limited Use (200 hr/yr)	0.0074	LB/MMBTU	3-HR AVG	0			-		
			FIRED BOILERS														
	THYSSENKRUPP STEEL		WITH ULNB	NATURAL.													
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	8/17/200	& EGR (537-	NATURAL GAS	64.0	MMBTU each	THIS PROCESS IS COVERED UNDER 503-0095-X026.		0.0076	LB/MMBTU			LB/H		1 .	J	
			PICKLE LINE	NATURAL			THIS TROCESS IS COVERED ONDER 505-0075-7020.										1
AR-0090	NUCOR STEEL, ARKANSAS	4/3/200	BOILERS, SN-52	GAS	12.6	MMBTU EACH		GOOD COMBUSTION PRACTICE OPERATIONAL RESTRICTION OF 500	0.3	LB/H		1.3	T/YR		0.0076	LB/MMBTU	
	VICTORVILLE 2 HYBRID		AUXILIARY	NATURAL				HR/YR, USE PUC OUALITY	Ί								
CA-1191	POWER PROJECT	3/11/2010	BOILER	GAS	35	MMBTU/H		NATURAL GAS USE PUC QUALITY NATURAL GAS,	0.2	GR S/100 SCF		0			+ -		
			AUXILIARY	NATURAL				OPERATIONAL LIMIT OF 46,675									
CA-1192	AVENAL ENERGY PROJECT	6/21/201	BOILER	GAS	37.4	MMBTU/H		MMBTU/YR	0.0034	GR S/100 SCF		0			-		
			AUXILIARY	NATURAL				USE PUC QUALITY NATURAL GAS, OPERATIONAL LIMIT OF 46,675	1					1			
CA-1192	AVENAL ENERGY PROJECT	6/21/201	BOILER TWO 99.8	GAS	37.4	MMBTU/H		MMBTU/YR	0.0034	GR S/100 SCF		0			1		
			TWO 99.8 MMBTU/H GAS-														
			FUELED						1					1			
FL-0286	FPL WEST COUNTY ENERGY CENTER	\$7\$p 10000	AUXILIARY	NATURAL		MMBTU/H	PRODUCE 85,000 LB/HR STEAM EACH		1 .	GR S/100 SCF				1	1 .		
:L=0280	EINERGT CENTER	1/10/200	BOILERS	UAS	99.8	WWW.DIU/FI			1 2	GR 5/100 SCF	<u> </u>	- 0		+	 	1	+
							The four natural gas boilers are used to generate the hot water that is used in the lumber kiln drying		1					1			
			Four(4) Natural Gas				process. Two boilers each share a common stack for a total of two stacks. In the initial phase of construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln		1					1			
			Boilers - 46				blocks are completed, the two other natural gas boilers will be constructed and brought online.		1					1			
FL-0335	SUWANNEE MILL	9/5/2012	MMBtu/hour	Natural Gas	46	MMBTU/H	Finally, the two biomass boilers will be built and brought on line.	Good Combustion Practice	2	GR S/100 SCF	-	- 0	-	+	+ -	1	
							The four natural gas boilers are used to generate the hot water that is used in the lumber kiln drying		1					1			
			E(DN1 S				process. Two boilers each share a common stack for a total of two stacks. In the initial phase of		1					1			
			Four(4) Natural Gas Boilers - 46				construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln blocks are completed, the two other natural gas boilers will be constructed and brought online.		1					1			
FL-0335	SUWANNEE MILL	9/5/2012	MMBtu/hour	Natural Gas	46	MMBTU/H	Finally, the two biomass boilers will be built and brought on line.	Good Combustion Practice	2	GR S/100 SCF	ļ	0		1	1 -		
	MARSHALLTOWN								1		AVERAGE OF 3 ONE-HOUR TEST			1			
*IA-0107	GENERATING STATION	4/14/2014	auxiliary boiler	natural gas	60.1	mmBtu/hr	fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period		0.008	LB/MMBTU	RUNS	0					
			TWO (2) NATURAL GAS														
	ST. JOSEPH ENEGRY		AUXILIARY	NATURAL			BOTH BOILERS, LABELED AS B001 AND B002, ARE EQUIPPED WITH LOW NOX BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM	GOOD COMBUSTION PRACTICES	1					1			
*IN-0158	CENTER, LLC	12/3/2012	BOILERS	GAS	80	MMBTU/H	GENERATING UNIT.	AND FUEL SPECIFICATIONS	0.0075	LB/MMBTU	3 HOURS	0.6	LB/H	3 HOURS	1 -		
								Good equipment design and proper combustion practices	1		HOURLY			1			
LA-0240	FLOPAM INC.	6/14/2010	Boilers	natural gas	25.1	MMBTU/H		fueled by natural gas/alcohol	0.1	LB/H	MAXIMUM	0.005	LB/MMBTU				
								Good equipment design and proper			HOURLY						
	FLOPAM INC.	6/14/2010	Boilers	natural gas	25.1	MMBTU/H		combustion practices, fueled by natural gas/alcohol	0.13	LB/H	MAXIMUM	0,005	LB/MMBTU	1	1 .	,	
LA-0240					1000			, , , , , , , , , , , , , , , , , , , ,	0.1.	1	1 HR AVG, DOES			1 HR AVG, DOES			
LA-0240																	
	SALEM HARBOR STATION	120001	Auviliany Dailan	Natural Goo	0.6	MMRtu/hr			0.000	IRMMPTII	NOT APPLY DURING SS		I R/H	NOT APPLY DURING SS		J	
*MA-0039		1/30/2014 11/12/2001		Natural Gas NATURAL		MMBtu/hr MMBTU/H	AUXILIARY BOILER			LB/MMBTU LB/MMBTU	NOT APPLY DURING SS	0.4	LB/H	NOT APPLY DURING SS			

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT AVG T		dit Unit	AVG TIME CONDITION
*MD-0041	CPV ST. CHARLES	4/23/2014	AUXILLARY BOILER	NATURAL		MMBTU/H	NATURAL GAS FUEL ONLY, OPERATION OF LOW-NOX BURNER TECHNOLOGY, FLUE GAS RECIRCULATION (FGR), GOOD COMBUSTION CONTROLS, MAX HEAT INPUT OF 372,000 MMBTU/HR	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES		LB/MMBTU	3-HOUR AVERAGE	2	e cons	10.1		CONDITION
	WILDCAT POINT		AUXILLARY	NATURAL			NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD	0		3-HOUR BLOCK		0		- 0	
*MD-0042	GENERATION FACILITY	4/8/2014	FGAUXBOILERS:	GAS	45	MMBTU/H	MMBUT/HR PER 12-MONTH ROLLING PERIOD There are two auxiliary boilers each rated at less than 100 MMBTU/H heat input.	COMBUSTION PRACTICES	0.0075	LB/MMBTU	AVERAGE		0		0	
	THETFORD GENERATING		Two auxiliary boilers < 100 MMBTU/H			MMBTU/H heat input	Fuel usage limited to not more than 416.3 MMscf of natural gas in each boiler per 12-month				HEAT INPUT; TEST PROTOCOL					
*MI-0410	STATION HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH		heat input each Auxiliary Boiler B	natural gas	100) each	rolling timeperiod as determined at the end of each month. One natural gas-fired auxiliary boiler rated at 95 MMBtu/hr fuel heat input (EUAUXBOILERB	Efficient combustion; natural gas fuel.		LB/MMBTU	SPECIFY AVG		0		0	
*MI-0412	STREET HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH	12/4/2013	(EUAUXBOILERB) Auxiliary Boiler A	natural gas	95	MMBTU/H	within flexible group FGAUXBOILERS).	Good combustion practices	0.007	LB/MMBTU	TEST PROTOCOL		0		0	+
*MI-0412	STREET	12/4/2013	(EUAUXBOILERA) SMALL BOILERS	natural gas	55	MMBTU/H	One natural gas-fired auxiliary boiler rated at 55 MMBTU/hr fuel heat input (EUAUXBOILERA within flexible group FGAUXBOILERS).	Good combustion practices	0.007	LB/MMBTU	TEST PROTOCOL		0		0	
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	9/7/2007	& HEATERS(<100 MMBTU/H)	NATURAL	96	MMBTU/H			0.0025	GR S/100 SCF	3 HOUR AVERAGE					
*MS-0092	EMBERCLEAR GTL MS		261 MMBtu/h natrual gas-fired boiler, equipped with low-NOx burners, SCR, and CO catalytic oxidation	NATURAL GAS		ммвти/н				LB/H	3-HR AVERAGE		0		0	
*MS-0092		5/8/2014	261 MMBtu/h natrual gas-fired boiler, equipped with low-NOx burners, SCR, and CO	NATURAL		MMBTU/H				LB/H	3-HR AVERAGE					
*MS-0092	EMBERCLEAR GTL MS	5/8/2014	catalytic oxidation Commercial/Instituti	UAS	201	MMB1U/H	The auxiliary boiler will have a maximum rated heat capacity of 91.6 MMBtuh and will be limited to natural gas firing only. It will be operated for the purposes of supplying steam during the start-up of the combined cycle unit.		1.31	LB/H			0			
NJ-0079	WOODBRIDGE ENERGY CENTER HESS NEWARK ENERGY	7/25/2012	onal size boilers less than 100 MMBtu/hr Boiler less than 100	natural gas	91.6	MMBtu/hr	The auxiliaryboiler will be equipped with Dry Low-NOx Burners to comply with BACT and LAER.	Natural Gas	0.46	LB/H	AVERAGE OF THREE TESTS AVERAGE OF		0		0	
NJ-0080	CENTER	11/1/2012	MMBtu/hr	Natural Gas	66.2	MMBtu/hr	THE BACT DETERMINATIONS REPORTED HERIN ARE SPECIFICALLY FOR THE	use of natural gas a clean fuel	0.33	LB/H	THREE TESTS		0		0	-
NV-0044	HARRAH'S OPERATING COMPANY, INC.	1/4/2007	COMMERCIAL/IN STITUTIONAL- SIZE BOILERS	NATURAL GAS	35.4	ммвти/н	TWO HUST BOILES INSTALLED AT CASSANS PALACE. EACH OF THEM HAS A RATED HEAT INTO FOR SAM MEMBER. THE PERMITTION GO ATION ALSO APPROVED THE INSTALLATION OF A NUMBER OF SMALL BOILES, ALL OF WHICH AVER A RATED HEAT INFUT BELOW THE THRESHOLD IN INSTITUTIONAL SIZE. NATURAL GAS IS THE ONLY FUEL USED FOR ALL BOILES FOR THIS FACILITY. THE FORM A USE AS OF PARTS HEAT INFUT FOR ALL ITHE NEW BOILES IS 100. THIS FACILITY INFORMATION. THE TWO NEW HURST BOILES HAVE THE COMBINED RATED HEAT INFUT FOR ALL THE NEW BOILES HIS 100.	USE OF NATURAL GAS AS THE ONLY FUEL	0.0075	LB/MMBTU		0.2	16 LB/H).0075 LB/MMBTU	
	GOODSPRINGS		COMMERCIAL/IN STITUTIONAL	NATURAL												
NV-0046	COMPRESSOR STATION	5/16/2006	BOILERS/HEATER S - NATURAL GAS-	GAS	3.85	MMBTU/H	THE UNIT'S MODEL IDENTIFICATION IS PERBLESS 724 FDA WU. THE FACILITY HAS 125 REGULATED UNITS AND 142 EXEMPT UNITS. UNIT RB013 (RITE BOILER, 6.5 MMBTU/HR) IS SELECTED TO SHOW THE BACT	GOOD COMBUSTION PRACTICE	0.0078	LB/MMBTU		0.1	3 T/YR		0.0078 LB/MMBTU	
NV-0047	NELLIS AIR FORCE BASE GOODSPRINGS	2/26/2008	FIRED COMMERCIAL/IN STITUTIONAL- SIZE BOILER (<100	GAS NATURAL			DETERMINATIONS. THE PROCESS CONSISTS OF ONE PEERLESS BOILER. THE BOILER IS ALLOWED TO	FLUE GAS RECIRCULATION NATURAL GAS IS THE ONLY FUEL		LB/MMBTU			IS LB/H		0.0077 LB/MMBTU	
NV-0048	COMPRESSOR STATION	5/16/2006	MMBTU/H)	GAS	3.85	MMBTU/H	OPERATE 8,700 HOURS PER YEAR. THE EMISSION UNIT IS A CLEAVES BROOKS BOILER AT HARRAHS LAS VEGAS. UNIT HAMS IS IDENTICAL TO HADO AND HAID. THE SAME SET OF EMISSION LIMITS APPLIES TO EACH OF THE THREE BOILERS. THE TRIES BOLLERS ARE SIBJECT TO THE LIMIT OF TOTAL ANNUAL OPERATING THAF FOR 20,000 HOURS PER YEAR. THERE ARE NO BOLLERS AT HARRAHS LAS VEGAS. WHICH HAS A THROUGHPUT CAPACITY IN EXCESS OF 10 MMBTUHR. NO BACT DETERMINATIONS FOR ANY EMISSION UNITS AT BILLS GAMBLING HALL & SALON ARE REPORTED HEREIN	OPERATING IN ACCORDANCE WITH		LB/MMBTU		0.0	3 Lb/H		0	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT HA08	NATURAL GAS	8.37	MMBTU/H	BECAUSE ALL OF THEM HAVE A VERY SMALL POTENTIAL TO EMIT FOR ANY POLLUTANT.	THE MANUFACTURERS SPECIFICATION FLUE GAS RECIRCULATION AND		LB/MMBTU		0.06	3 LB/H		0.0075 LB/MMBTU	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL	14 24	MMBTU/H	UNIT FL01 IS A JOHNSTON BOILER AT FLAMINGO LAS VEGAS. THIS UNIT MAY OPERATE 8,760 HOURS PER YEAR.	OPERATING IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION		LB/MMBTU		0.1	1 LB/H		0.0075 LB/MMBTU	
NV-0049	HARRAH'S OPERATING		BOILER - UNIT	NATURAL			UNIT BA01 IS A KEWANEE BOILER AT BALLY'S LAS VEGAS. UNIT BA01 IS IDENTICAL TO UNIT BA02. THE TWO BOILERS ARE SUBJECT TO THE ANNUAL	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S								
	COMPANY, INC. HARRAH'S OPERATING	8/20/2009	BOILER - UNIT	NATURAL		MMBTU/H	LIMIT OF COMBINED TOTAL OPERATING TIME FOR 10,900 HOURS PER YEAR. UNIT BA03 IS A KIWANEE BOLER AT BALLY'S LAS VEGAS. THE ANNUAL	SPECIFICATION OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S		LB/MMBTU			3 LB/H		0.0077 LB/MMBTU	
NV-0049	COMPANY, INC. HARRAH'S OPERATING	8/20/2009	BA03 BOILER - UNIT	GAS	31.38	MMBTU/H	OPERATING TIME IS LIMITED TO 2,920 HOURS PER YEAR. UNIT CP01 IS A HURST BOILER AT CAESAR'S PALACE. UNIT CP01 IS IDENTICAL TO UNIT CP02. UNITS CP01 THROUGH CP05 (FIVE BOILERS) ARE SUBJECT TO THE	SPECIFICATION OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S		LB/MMBTU		0.2	4 LB/H		0.0076 LB/MMBTU	
NV-0049	COMPANY, INC.	8/20/2009		GAS	35.4	MMBTU/H	ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR.	SPECIFICATION	0.0076	LB/MMBTU		0.2	7 LB/H		0.0076 LB/MMBTU	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009		NATURAL GAS	33.48	MMBTU/H	UNIT CP03 IS A BURNHAM BOILER AT CAESAR'S PALACE. UNITS CP01 THROUGH CP05 (FIVE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR.	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION	0.0075	LB/MMBTU		0.2	5 LB/H		.0075 LB/MMBTU	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009		NATURAL GAS	24	MMBTU/H	UNIT CP26 IS A UNILUX BOILER AT CAESAR'S PALACE. THE UNIT IS ALLOWED TO OPERATE UP TO 8,760 HOURS PER YEAR.	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION	0.0075	LB/MMBTU		0.1	8 LB/H		.0075 LB/MMBTU	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT PA15	NATURAL GAS	21	MMBTU/H	UNIT PAIS IS A BRYAN BOILER AT PARIS CASINO RESORT. UNIT PAIS IS IDENTICAL TO UNIT PAIG. UNIT PAIA IS A BRYAN BOILER RATED AT 170 MBITUIRE ACH OF THE THREE BOILERS IS SUBJECT TO THE LIMIT OF ANNUAL OPERATING TIME FOR 4.380 HOURS PER YEAR. THEY SHARE THE SAME BACT DETERMINATIONS ON THE PER MURTU BASIS.	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION	0.0076	LB/MMBTU		0.1	6 LB/H	· ·	.0076 LB/MMBTU	

				PRIMARY					EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT IP04	NATURAL GAS	16.7	7 MMBTU/H	UNIT IP04 IS A KEWANEE BOILER AT IMPERIAL PALACE. UNIT IP04 IS IDENTICAL TO UNIT IP05. EITHER BOILER IS ALLOWED TO OPERATE UP TO 8,760 HOURS PER YEAR.	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION	0.0078	LB/MMBTU		0.13	LB/H		0.0078	LB/MMBTU	
	,		BOILERS - UNITS CC001,				THE THREE UNITS ARE IDENTICAL NEBRASKA BOILERS, EACH OF WHICH IS RATED AT 41.64 MMBTU/HR. EACH UNIT IS ALLOWED TO OPERATE 24										
NV-0050	MGM MIRAGE	11/30/2009		NATURAL GAS	41.64	MMBTU/H	HOURS/DAY AND UP TO 5,800 HOURS/ YEAR. THE EMISSION LIMITS REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION 98 DATED MARCH 30, 2006	LIMITING THE FUEL TO NATURAL GAS ONLY AND GOOD COMBUSTION PRACTICES		LB/MMBTU		7 64	I.B/D		0.0077	I.B/MMBTU	
	CAITHNES BELLPORT		AUXILIARY	NATURAL								7.04	LDID		0.0077	LINIMIDIO	
NY-0095	ENERGY CENTER	5/10/2006	BOILER	GAS	29.4	MMBTU/H	4800 H/YR TWO BOILERS WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION WITH #2 OIL BACKUP	LOW SULFUR FUEL	0.0033	LB/MMBTU		0			0		+
OH-0309	TOLEDO SUPPLIER PARK- PAINT SHOP	5/3/2007	BOILER (2), NATURAL GAS	NATURAL GAS	20.4	4 MMBTU/H	TWO SET OF LIMITS, THIS ONE FOR NATURAL GAS		0.15	LB/H		0.78	T/YR		0.0075	LB/MMBTU	
OH-0323	TITAN TIRE CORPORATION OF BRYAN	6/5/2008	DOILED.	NATURAL GAS	50.	4 MMBTU/H		use of natural gas	0.094	I Dai		0.41	T/YR		1.0	LB/MMSCF	AP-42 FACTOR
	REPUBLIC STEEL			Natural Gas		MMBtu/H	Natural Gas-fired stam boiler to vacuum tank degasser	use or naturar gas		LB/H			T/YR		0	LD/MMSCF	AF-42 FACTOR
	one con crean						99 MMBTU/H auxillary boiler with low-NOx burners and flue gas re-circulation,	G. 1 . 6 . 1						nen norrano			
OH-0352	OREGON CLEAN ENERGY CENTER PRYOR PLANT		Auxillary Boiler BOILERS #1	Natural Gas NATURAL	95	MMBtu/H	burning only natural gas. Boiler restricted to 2000 hours of operation per rolling 12- months. THE BOILERS WILL PROVIDE THE STEAM NEEDED TO OPERATE THE	Clean burning fuel, only burning natural gas	0.79	LB/H		0.79	T/YR	PER ROLLING 12-MONTHS	0.008	LB/MMBTU	
DK-0135	CHEMICAL	2/23/2009	AND #2	GAS	80	MMBTU/H	VARIOUS PIECES OF EQUIPMENT AT THE FACILITY.		0.6	LB/H		0			0		
OK-0135	PRYOR PLANT CHEMICAL	2/23/2009		NATURAL GAS	80	MMBTU/H	THE BOILERS WILL PROVIDE THE STEAM NEEDED TO OPERATE THE VARIOUS PIECES OF EQUIPMENT AT THE FACILITY.	Natural Gas	0.5	LB/H	24-HOUR	0			0		
OR-0048	CARTY PLANT	12/29/2010	NATURAL GAS- FIRED BOILER	NATURAL GAS	91	MMBTU/H		CLEAN FUEL	2.5	LB/MMSCF		0			0		
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	AUXILIARY	Natural Gas) MMBTU/H			0.005	LB/MMBTU		0.45	T/YR	12-MONTH ROLLING TOTAL			
*PA-0291	BERKS HOLLOW ENERGY ASSOC	4/23/2013	BOILER	Natural Gas	40	MMBTU/H			0.005	LB/MMBTU		0.46	I/YR	TOTAL	0		
*PA-0296	LLC/ONTELAUNEE	12/17/2013	Auxiliary Boiler	Natural Gas	40	MMBtu/hr		Natural Gas		T/YR		0			0		+
SC-0112	NUCOR STEEL - BERKELEY	5/5/2008	VACUUM DEGASSER BOILER	NATURAL	50.21	MMBTU/H		GOOD COMBUSTION PRACTICES PER MANUFACTURER'S GUIDANCE		LB/MMBTU					0.0076	LB/MMBTU	
SC-0112		5/5/2008		GAS	50.21	MMB1U/H		GUIDANCE	0.0076	LB/MMB1U		0			0.0076	LB/MMB1U	+
SC-0149	KLAUSNER HOLDING USA, INC	1/3/2013	NATURAL GAS BOILER EU003		46	MMBTU/H		Natural gas	0.005	LB/MMBTU	3-HOUR	0			0		
SC-0149	KLAUSNER HOLDING USA, INC	1/3/2013	NATURAL GAS BOILER EU004	NATURAL GAS	46	MMBTU/H		Natural gas	0.005	LB/MMBTU	3-HOUR	0			0		
	KLAUSNER HOLDING		NATURAL GAS														
SC-0149	USA, INC KLAUSNER HOLDING	1/3/2013	BOILER EU005 NATURAL GAS	GAS	46	MMBTU/H		Natural gas	0.005	LB/MMBTU	3-HOUR	0			0		
SC-0149	USA, INC PORT OF BEAUMONT	1/3/2013	BOILER EU006		46	MMBTU/H		Natural gas	0.005	LB/MMBTU	3-HOUR	0			0		
	PETROLEUM		Commercial/Institu														
*TX-0772	TRANSLOAD TERMINAL (PBPTT)	11/6/2015	tional-Size Boilers/Furnaces	natural gas	40	MMBtu/hr	Hot oil heater	Good combustion practice to ensure complete combustion. gaseous fuel	1.31	T/YR		0			0		
	PORT OF BEAUMONT PETROLEUM		Commercial/Institu														
*TX-0772	TRANSLOAD TERMINAL (PBPTT)	11/6/2015	tional-Size Boilers/Furnaces	natural gas	95.7	7 MMBtu/hr	Three boilers will be used intermittently to provide steam for heating tanks or railcars as necessary to reduce viscosity of heavy liquids.	Use of gaseous fuel with efficient combustion.	7.49	T/YR		0					
	PORT OF BEAUMONT																
TX-0772	PETROLEUM TRANSLOAD TERMINAL (PBPTT)	11/6/2015	Commercial/Institu tional-Size Boilers/Furnaces	natural gas	13.5	2 MMBtu/hr	Boiler will be operated continuously to maintain system temperatures in the intermittent boilers and heavy liquid storage tanks.	Good combustion practice to ensure complete combustion.	0.4	T/YR							
	CHEYENNE PRAIRIE		_								3 HOUR			3 HOUR			
*WY-0075	CHEYENNE PRAIRIE GENERATING STATION	7/16/2014	Auxiliary Boiler	natual gas	25.00	MMBtu/h		good combustion practices	0.0175	LB/MMBTU	3 HOUR AVERAGE	0.4	LB/H	3 HOUR AVERAGE	0		
	Astoria Energy LLC		Auxiliary Boiler	Natural Gas	95	MMBtu/hr		Clean Fuel	0.005	LB/MMBTU	1-hr average	0.495	LB/H	1-hour average			
	Footprint Power Salem Harbor Development LP		Auxiliary Boiler	Natural Gas	80	MMBtu/hr		Pipeline quality NG	0.4	LB/H	1-hr average	0.005	lb/MMBtu	1-hr average			
	CPV Valley Energy Center Wawayanda, NY			Natural Gas	73.5	5 MMBtu/hr		Low sulfur fuel.	0.0063	LB/MMBTU	1-hr average						
	Cricket Valley Energy Center		Auxiliary Boiler	Natural Gas	48.63	MMBtu/hr			0.005	LB/MMBTU							
	Pioneer Valley Energy Center		Auxiliary Boiler	Natural Gas	21	I MMBtu/hr			0.0048	LB/MMBTU		0.1	LB/H				
	Tenaska Partners LLC		Auxiliary Boiler	Natural Gas		MMBtu/hr				LB/MMBTU			T/YR	12-month rolling			1
	Hess Newark Energy Center SUNBURY GENERATION		Auxilary Boiler	Natural Gas	66.2	2 MMBtu/hr		Natural gas	0.33	LB/H	1 time stack test	0.005	lb/MMBtu				<u> </u>
	LP		Auxiliary Boiler	Natural Gas	100	MMBTU/hr			0.008	LB/MMBTU	12 month-period	0.79	LB/H	12 month-period			
	SUNBURY GENERATION LP SUNBURY GENERATION		Auxiliary Boiler	Natural Gas	106	MMBTU/hr			1.58	T/YR							-
	LP SUNBURY GENERATION		Auxiliary Boiler	Natural Gas	15	MMBTU/hr			0.008	LB/MMBTU	12 month-period	0.11	LB/H	12 month-period			
	LP		Auxiliary Boiler	Natural Gas	15	MMBTU/hr			0.46	T/YR							
	Kalama Energy Center PacifiCorp's Lake Side		Auxiliary Boiler Auxiliary Boiler		36.5	MMBtu/hr			0.28		1-hr avg			+ -			+
	Power Plant		#1	Natural Gas	61.2	MMBTU/hr			0.01	LB/MMBTU	3-hr			1			
	PacifiCorp's Lake Side	1	Auxiliary Boiler	Natural Gas	1	2 MMBTU/hr		I	1	LB/MMBTU	1	l	I	1	1	I	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE		PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2			STANDARAD EMISSION LIMIT	AVG TIME CONDITION
	Sevier Power Company		Auxiliary Boiler													
	Power Plant			Natural Gas	85	Mmbtu/hr			0.01	LB/MMBTU	3-hr					
	St. Joseph's Energy Center		Auxiliary Boilers #1 and #2	Natural Gas	80	MMBtu/hr			0.0075	LB/MMBTU	3-hr	0.6	LB/H	3-hr		
	York Energy Center Block 2	42170	Auxiliary Boiler	Natural Gas	61	MMBtu/hr		Natural gas	0.005	lb/MMBtu		1.3	T/YR			
	MOUNDSVILLE COMBINED CYCLE POWER PLANT		Auxiliary Boiler	Natural Gas	100) MMBtu/hr			0.5	LB/H		0.5	T/YR			

				PRIMARY					EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
*FL-0363	DANIA BEACH ENERGY CEN	12/4/2017	99.8 MMBtu/hr auxil	li Natural gas	99.8	MMBtu/hr	Fueled only with natural gas.	Clean fuels	0				0)	!
IN-0263	MIDWEST FERTILIZER COM	3/23/2017	NATURAL GAS AL	J NATURAL GAS	218.6	MMBTU/H		PROPER DESIGN AND GOOD COMBUSTION PRACTICES AT ALL	7.6	LB/MMCF EACH	3 HOUR AVERAG		0			0	
LA-0305	LAKE CHARLES METHANOL	6/30/2016	Auxiliary Boilers and	Natural Gas			Supplement fuel: fuel gas Boilers: 225 MM BTU/hr each	good engineering design and proper operation	0				0				
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Auxiliary boilers	natural gas	171	mm btu/hr		good combustion practices					0				
MI-0420	DTE GAS COMPANY-MILFO	6/3/2016	FGAUXBOILERS		1/1	MMBTU/H		Good combustion practices and low sulfur	0.0075	LB/MMBTU	TEST PROTOCOL						1
				Natural gas	6		Two natural gas-fired auxiliary boilers, each rated at 6 MMBTU/H fuel heat input. The boilers are	fuel (pipeline quality natural gas).					0			,	
MI-0423	INDECK NILES, LLC	1/4/2017	EUAUXBOILER (A			MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fuel heat input.	Good combustion practices.		LB/H	HOURLY, TEST I	1	0			0	+
MI-0424	HOLLAND BOARD OF PUBLIC	12/5/2016	EUAUXBOILER (A	u natural gas	83.5	MMBTU/H	One natural gas fired auxiliary boiler rated at 83.5 MMBTU/hr fuel heat input (EUAUXBOILER).	Good combustion practices. Good combustion practices and low sulfur	0.007	LB/MMBTU	TEST PROTOCOL		0		-	<u> </u>	
MI-0426	DTE GAS COMPANY - MILFO	3/24/2017	FGAUXBOILERS (6	6 Natural gas	3	MMBTU/H	Four natural gas-fired auxiliary boilers, each rated at 3 MMBTU/H fuel heat input (EUAUXBOIL2	fuel (pipeline quality natural gas).	0.52	LB/MMSCF	EACH BOILER		0)	
*MI-0433	MEC NORTH, LLC AND MEC	6/29/2018	EUAUXBOILER (N	ld Natural gas	61.5	MMBTU/H	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the CTC	Good combustion practices.	0.46	LB/H	HOURLY		0			0	
*MI-0433	MEC NORTH, LLC AND MEC	6/29/2018	EUAUXBOILER (S	o Natural gas	61.5	MMBTU/h	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the CTC	Good combustion practices.	0.46	LB/H	HOURLY		0			,	
*MI-0435	BELLE RIVER COMBINED CY	7/16/2018	EUAUXBOILER: A	Natural gas		MMBTU/H	A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the CTG/HRSG	Good combustion practices, low sulfur fuel		LB/MMBTU	HOURLY		0.7 I B/H	HOURLY			
NJ-0084	PSEG FOSSIL LLC SEWAREN	3/10/2016	Auxiliary Boiler firin			MMBtu/hr					AV OF THREE O		0.7 LINII	HOURET			1
				natural gas			Maximum heat input rate for natural gas fired suxiliary boiler is 80 MMBtu/hr (HHV) permitted to	use of natural gas a clean burning fuel USE OF NATURAL GAS A CLEAN	0.4				0			-	
NJ-0085	MIDDLESEX ENERGY CENT	7/19/2016	AUXILIARY BOILE	E Natural GAS	4000	H/YR		BURNING FUEL		LB/H	AV OF THREE O		0			0	
*PA-0310	CPV FAIRVIEW ENERGY CE?	9/2/2016	Auxilary boiler	Natural Gas	92.4	MMBtu/hr	Operation of the auxiliary boiler shall not exceed 4000 hrs in any continuous 12-month period.	ULSD and good combustion practices	0.007	LB/MMBTU		1	.29 TPY	12-MONTH ROL	Ц)	
*WV-0031	MOCKINGBIRD HILL COMPR	6/14/2018	WH-1 - Boiler	Natural Gas	8.72	mmBtu/hr	Used to generated heat for the new building associated with the project during the heating season.	Limited to natural gas	0				0		0.2	TON/YEAR	
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2015		Natural Gas	50	MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.		0.0074	LB/MMBTU	3-HR AVG		0			0	
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2015	Five (5) Waste Heat Boilers	Natural Gas	50	MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.		0.0074	LB/MMBTU	3-HR AVG		0			0	
	VICTORVILLE 2 HYBRID		AUXILIARY	NATURAL				OPERATIONAL RESTRICTION OF 500 HR/YR, USE PUC QUALITY									
CA-1191	POWER PROJECT VICTORVILLE 2 HYBRID	3/11/2010	BOILER	GAS NATURAL	35	MMBTU/H		NATURAL GAS	0.2	GR S/100 SCF			0			0	
CA-1191	POWER PROJECT	3/11/2010	AUXILIARY BOILER	GAS	35	MMBTU/H		OPERATIONAL RESTRICTION OF 500 HR/YR	0.2	GR S/100 SCF			0			0	
			AUXILIARY	NATURAL				USE PUC QUALITY NATURAL GAS, OPERATIONAL LIMIT OF 46,675									
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	BOILER	GAS	37.4	MMBTU/H		MMBTU/YR	0.0034	GR S/100 SCF			0			0	
							The four natural gas boilers are used to generate the hot water that is used in the lumber kiln drying process. Two boilers each share a common stack for a total of two stacks. In the initial phase of										
			Four(4) Natural Gas				construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln										
FL-0335	SUWANNEE MILL	9/5/2012	Boilers - 46 MMBtu/hour	Natural Gas	46	MMBTU/H	blocks are completed, the two other natural gas boilers will be constructed and brought online. Finally, the two biomass boilers will be built and brought on line.	Good Combustion Practice	2	GR S/100 SCF			0			0	
							The four natural sess boilers are used to generate the hot water that is used in the lumber kiln drying										
			Four(4) Natural Gas				process. Two boilers each share a common stack for a total of two stacks. In the initial phase of construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln										
			Boilers - 46				blocks are completed, the two other natural gas boilers will be constructed and brought online.										
FL-0335	SUWANNEE MILL	9/5/2012	MMBtu/hour	Natural Gas	46	MMBTU/H	Finally, the two biomass boilers will be built and brought on line.	Good Combustion Practice	2	GR S/100 SCF	AVERAGE OF 3		0			0	+
*IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	auxiliary boiler	natural oas	60.1	mmRtu/hr	fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period		0.008	LBMMBTU	ONE-HOUR TEST		0			0	
			TWO (2) NATURAL GAS				BOTH BOILERS, LABELED AS B001 AND B002, ARE EQUIPPED WITH LOW NOX										
	ST. JOSEPH ENEGRY		AUXILIARY	NATURAL			BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM	GOOD COMBUSTION PRACTICES									
*IN-0158	CENTER, LLC	12/3/2012	BOILERS	GAS	80	MMBTU/H	GENERATING UNIT.	AND FUEL SPECIFICATIONS Good equipment design and proper	0.0075	LB/MMBTU	3 HOURS		0.6 LB/H	3 HOURS		0	+
LA-0240	FLOPAM INC.	6/14/2010	Boilers	natural sas	25.1	MMBTU/H		combustion practices, fueled by natural gas/alcohol	0.13	LB/H	HOURLY MAXIMUM	0.0	005 LB/MMBTU			0	
											1 HR BLOCK AVG, DOES NOT			1 HR BLOCK AVG, DOES NOT	r		
	SALEM HARBOR STATION										APPLY DURING			APPLY DURING			
*MA-0039	REDEVELOPMENT	1/30/2014	Auxiliary Boiler	Natural Gas	80	MMBtu/hr		USE OF PIPELINE QUALITY	0.005	LB/MMBTU	SS		0.4 LB/H	SS		0	
MD-0040	CPV ST CHARLES	11/12/2008	BOILER	NATURAL GAS	93	MMBTU/H	AUXILIARY BOILER	NATURAL GAS AND GOOD COMBUSTION PRACTICES EXCLUSIVE USE OF PIPELINE	0.005	LB/MMBTU	3-HR AVERAGE		0			0	
	WILDCAT POINT		AUXILLARY	NATURAL			AUXILIARY BOILER NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD			3-HOUR BLOCK						
*MD-0042	GENERATION FACILITY	4/8/2014	BOILER	GAS	45	MMBTU/H	MMBUT/HR PER 12-MONTH ROLLING PERIOD	COMBUSTION PRACTICES	0.0075	LB/MMBTU	AVERAGE		0		1	0	
			FGAUXBOILERS:				There are two auxiliary boilers each rated at less than 100 MMBTU/H heat input.										
	THETFORD GENERATING		Two auxiliary boilers < 100 MMBTU/H	i		MMBTU/H heat input	Fuel usage limited to not more than 416.3 MMscf of natural gas in each boiler per 12-month				HEAT INPUT; TEST PROTOCOL						
*MI-0410	STATION HOLLAND BOARD OF	7/25/2013	heat input each	natural gas	100	each	rolling timeperiod as determined at the end of each month.	Efficient combustion; natural gas fuel.	0.007	LB/MMBTU	WILL SPECIFY	-	0			0	+
*MI-0412	PUBLIC WORKS - EAST 5TH STREET	12/4/2013	Auxiliary Boiler B (EUAUXBOILERB)	natural me	0.5	MMRTU/H	One natural gas-fired auxiliary boiler rated at 95 MMBtu/hr fuel heat input (EUAUXBOILERB within flexible group FGAUXBOILERS).	Good combustion reactions	0.007	LB/MMBTU	TEST PROTOCOL						
MI-0412	HOLLAND BOARD OF	12/4/2013		, marinar gas	95			споль сониоными реаспесс	0.007	LD:MMD I U	LEST FROTOCOL		V				+
*MI-0412	PUBLIC WORKS - EAST 5TH STREET	12/4/2013	Auxiliary Boiler A (EUAUXBOILERA)) natural gas	55	MMBTU/H	One natural gas-fired suxiliary boiler rated at 55 MMBTU/hr fuel heat input (EUAUXBOILERA within flexible group FGAUXBOILERS). The auxiliary boiler will have a maximum rated heat capacity of 91.6 MMBtu/h and will be limited	Good combustion practices	0.007	LB/MMBTU	TEST PROTOCOL		0			0	
							to natural gas firing only. It will be operated for the purposes of supplying steam during the start-										
			Commercial/Instituti				up of the combined cycle unit.										
NII oomo	WOODBRIDGE ENERGY	***	onal size boilers less	L		1000-1	The auxiliaryboiler will be equipped with Dry Low-NOx Burners to comply with BACT and	II		I DATE	AVERAGE OF						
NJ-0079	CENTER HESS NEWARK ENERGY		than 100 MMBtu/hr Boiler less than 100	natural gas	91.6	MMBtu/hr	LAEK.	Use of Natural gas		LB/H	THREE TESTS AVERAGE OF		0			DI .	+
NJ-0080	CENTER		MMBtu/hr BOILERS #1 AND	Natural Gas NATURAL	51.9	mmcubic ft/year	THE BOILERS WILL PROVIDE THE STEAM NEEDED TO OPERATE THE VARIOUS	use of natural gas a clean fuel		LB/H	THREE TESTS		0			0	+
OK-0135	PRYOR PLANT CHEMICAL	2/23/2009	#2	GAS	80	MMBTU/H	PIECES OF EQUIPMENT AT THE FACILITY.		0.6	LB/H			0			0	
	HICKORY RUN ENERGY		AUXILIARY			l a comuni				, nan ===				12-MONTH			
*PA-0291	STATION	4/23/2013	BOILER	Natural Gas	40	MMBTU/H			0.005	LB/MMBTU	+	1 0	.46 T/YR	ROLLING TOTA	4	01	+
	BERKS HOLLOW ENERGY										BASED ON 12- MONTH						
*PA-0296	ASSOC LLC/ONTELAUNEE KLAUSNER HOLDING USA.	12/17/2013	Auxiliary Boiler NATURAL GAS	Natural Gas NATURAL	40	MMBtu/hr		Natural Gas	0.46	T/YR	ROLLING TOTAL		0		1	0	+'
SC-0149	INC PORT OF BEAUMONT		BOILER EU006	GAS	46	MMBTU/H		Natural Gas	0.005	LB/MMBTU	3-HOUR		0			0	 '
	PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size	1				Good combustion practice to ensure									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	40	MMBtu/hr	Hot oil heater	complete combustion, gaseous fuel	1.31	T/YR		1	0	1	1	0	

				IPRIMARY					TEMISSION		IAVG TIME	TEMISSION		LAVG TIME	ISTANDARAD		AVGTIME
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE			THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION		UNIT	CONDITION		UNIT	CONDITION	EMISSION LIMIT		CONDITION
	PORT OF BEAUMONT		Commercial/Instituti										i i				
	PETROLEUM TRANSLOAD		onal-Size				Three boilers will be used intermittently to provide steam for heating tanks or railcars as necessary	Use of gaseous fuel with efficient									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	95.7	7 MMBtu/hr	to reduce viscosity of heavy liquids.	combustion.	7.49	T/YR			0				
	PORT OF BEAUMONT		Commercial/Instituti														
	PETROLEUM TRANSLOAD		onal-Size				Boiler will be operated continuously to maintain system temperatures in the intermittent boilers	Good combustion practice to ensure									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	13.2	MMBtu/hr	and heavy liquid storage tanks.	complete combustion.	4	T/YR			0				
	CHEYENNE PRAIRIE										3 HOUR			3 HOUR			
*WY-0075	GENERATING STATION	7/16/2014	Auxiliary Boiler	natual gas	25.06	MMBtu/h		good combustion practices	0.0175	LB/MMBTU	AVERAGE	0.4	4 LB/H	AVERAGE			
	Footprint Power Salem Harbor																
	Development LP		Auxiliary Boiler	Natural Gas	80	MMBtu/hr		Pipeline quality NG	0.4	LB/H	1-hr average	0.00	5 lb/MMBtu	1-hr average			
	CPV Valley Energy Center																
	Wawayanda, NY		Auxiliary Boiler	Natural Gas		5 MMBtu/hr		Low sulfur fuel.		LB/MMBTU	1-hr average						
	Cricket Valley Energy Center		Auxiliary Boiler	Natural Gas	48.63	3 MMBtu/hr			0.005	LB/MMBTU							
	Pioneer Valley Energy Center		Auxiliary Boiler	Natural Gas	21	MMBtu/hr			0.0048	LB/MMBTU		0.	1 LB/H				
	Hess Newark Energy Center		Auxilary Boiler	Natural Gas	66.2	2 MMBtu/hr		Natural Gas	0.33	LB/H	1 time stack test	0.003	5 lb/MMBtu				
	Kalama Energy Center		Auxiliary Boiler	Natural Gas	36.5	5 MMBtu/hr			0.28	LB/H	1-hr avg						
	PacifiCorp's Lake Side Power																
1	Plant		Auxiliary Boiler #2	Natural Gas	61.2	MMBTU/hr			0.01	LB/MMBTU	3-hr						
	Sevier Power Company Power																
	Plant		Auxiliary Boiler #2	Natural Gas	85	5 Mmbtu/hr			0.01	LB/MMBTU	3-hr						
			Auxiliary Boilers #1														
	St. Joseph's Energy Center		and #2	Natural Gas	80	MMBtu/hr			0.0075	LB/MMBTU	3-hr	0.0	6 LB/H	3-hr			
	York Energy Center Block 2	42170	Auxiliary Boiler	Natural Gas	61	1 MMBtu/hr		Natural Gas	0.005	lb/MMBtu		1.3	3 T/YR				
	MOUNDSVILLE COMBINED			1	1	1											
1	CYCLE POWER PLANT	41773	Auxiliary Boiler	Natural Gas	100	MMBtu/hr			0.5	LB/H		0.5	5 T/YR				

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	nno onco vi ven		THE OUTCOMESTIC	THROUGHPUT UNIT	The street North	CONTROL METHOD DESCRIPTION	EMISSION	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
RBLCID	OKEECHOBEE CLEAN	PERMIT ISSUANCE DATE	Auxiliary Boiler,	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNI	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT I	GR. S/100 SCF	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
FL-0356	ENERGY CENTER	3/9/2016	99.8 MMBtu/hr	Natural gas	99.	8 MMBtu/hr	Fires only natural gas. Limited to 2000 hr/yr.	Use of low-sulfur gas	-	2 GAS			0				
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/201	99.8 MMBtu/hr auxiliary boiler	Natural gas	99.	8 MMBtu/hr	Fueled only with natural sas.	Clean fuels	1 .	0			0				
	LAKE CHARLES		Auxiliary Boilers and				Supplement fuel: fuel gas	fuel gases and/or pipeline quality natural									
LA-0305	METHANOL FACILITY	6/30/2016	Superheaters	Natural Gas		0	Boilers: 225 MM BTU/hr each	gas	 	0	BASED ON FUEL		0	BASED UPON)	
MI-0423		1/4/201	EUAUXBOILER					Good combustion practices and the use of	l .		RECEIPT		0 GR/MMSCF	FUEL RECEIPT			
MI-0423	INDECK NILES, LLC	1/4/201	(Auxiliary Boiler)	natural gas	18	2 MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fluel heat input. A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the CTGHRSC train and to provide the required steam to support the startup of the facility, including	pipeline quality natural gas.	0.0	6 LB/MMSCF	RECORDS	200	0 GR/MMSCF	RECORDS)	1
			EUAUXBOILER				CTGHRSG train and to provide the required steam to support the startup of the facility, including										
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2011	(North Plant): Auxiliary Boilder	Natural one	61	5 MMBTU/H	but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low NOx burners (LNB) and flue gas recirculation (FGR).	Good combustion practices and the use of pipeline quality natural gas.	1	8 LB/MMSCF	MONTHLY		6 GR S/100 SCF	FUEL SUPPLIER RECORDS		,	
WII*0433	SOUTHER	0/29/2010		Natural gas	01.	J MIMID I C/II	A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	pipenne quanty natural gas.	1.0	o Lisminiaci	MONTHLI		0 GK 3/100 3CF	RECORDS		1	
	MEC NORTH, LLC AND MEC		EUAUXBOILER (South Plant):				CTGHRSG train and to provide the required steam to support the startup of the facility, including							FUEL SUPPLIER			
*MI-0433	SOUTH LLC PSEG FOSSIL LLC	6/29/2011	(South Plant): Auxiliary Boiler	Natural gas	61.	5 MMBTU/h	but not limited to steam for sparging, STG seals, etc. The auxiliary boiler is equipped with low NOx burners (LNB) and flue gas recirculation (FGR).	Good combustion practices and the use of pipeline quality natural gas.	1.1	8 LB/MMSCF	MONTHLY	0	6 GR S/100 SCF	RECORDS			
	PSEG FOSSIL LLC							La constant de la con									
NI-0084	SEWAREN GENERATING STATION	3/10/2016	Auxiliary Boiler firing natural gas	natural me	68	7 MMCFT/YR	Maximum heat input rate for natural gas fired auxiliary boiler is 80 MMBtw/hr (HHV) permitted to operate for 8760 hrs/yr.	Use of natural gas a low sulfur fuel	0.1	2 LB/H						,	
	MIDDLESEX ENERGY		AUXILIARY	matara gas			operate for 0/00 ms/yr.	USE OF NATURAL GAS A CLEAN								1	
NJ-0085	CENTER, LLC	7/19/2010	BOILER 3 NATURAL GAS-	Natural GAS	400	0 H/YR		BURNING LOW SULFUR FUEL	0.12	8 LB/H			0)	
			FIRED BOILERS														
	THYSSENKRUPP STEEL		WITH ULNB														
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	8/17/200	& EGR (537-	NATURAL GAS	64	9 MMBTU each	THIS PROCESS IS COVERED UNDER 503-0095-X026.	Natural gas	0.000	6 LB/MMBTU		0.0	4 LB/H			,	
742-0230	71.1D DI711.1LEDD CD7C EEC	0.17/200	VACUUM	TOTAL GIB		/ Initial Country	THIS TROCKED TO COVERED CHOICE 305-8075-74020.	- vacana gas	0.000	O LD MIND C			1.12.11				
AL-0231	NUCOR DECATUR LLC	6/12/2000	DEGASSER	NATURAL GAS		5 MMBTU/H		Natural Gas	0.000	6 LB/MMBTU		0.04	7 LB/H			,	
			PICKLE LINE					ransam vAID	3.000					1	· '	1	1
AR-0090	NUCOR STEEL, ARKANSAS	4/3/2006	BOILERS, SN-52	NATURAL GAS	12.	6 MMBTU EACH			0.	1 LB/H		0	1 T/YR	1	0.000	LB/MMBTU	
	1		TWO 99.8 MMBTU/H GAS-			1			1								
			FUELED														
FL-0286	FPL WEST COUNTY ENERGY CENTER	1/10/200	AUXILIARY BOILERS	NATURAL GAS	00	8 MMBTU/H	PRODUCE 85,000 LB/HR STEAM EACH		1 .	2 GR S/100 SCF			0			,	
FL-0280	ENERGI CENTER	1710/200	BOILERS	NATURAL GAS		8 MMB10/II				2 GR 3/100 3CF			-			1	
							The four natural gas boilers are used to generate the hot water that is used in the lumber kiln drying process. Two boilers each share a common stack for a total of two stacks. In the initial phase of										
			Four(4) Natural Gas				construction, two natural gas fired boilers will supply hot water to one block of kilns. As other kiln										
			Boilers - 46				blocks are completed, the two other natural gas boilers will be constructed and brought online.										
FL-0335	SUWANNEE MILL	9/5/2012	MMBtu/hour TWO (2)	Natural Gas	4	6 MMBTU/H	Finally, the two biomass boilers will be built and brought on line.	Good Combustion Practice		2 GR S/100 SCF			0)	
			NATURAL GAS				BOTH BOILERS, LABELED AS B001 AND B002, ARE EQUIPPED WITH LOW NOX										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC		AUXILIARY BOILERS	NATURAL GAS		0 MMBTU/H	BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM GENERATING UNIT.	FUEL SPECIFICATIONS		2 LB/MMBTU	3 HOURS		6 LB/H	3 HOURS			
*IN-0158	CENTER, LLC	12/3/201.	BOILERS	NATURAL GAS	8	0 MMB1U/H	GENERATING UNIT.	FUEL SPECIFICATIONS	0.002.	2 LB/MMB1U	1 HR BLOCK	0.17	6 LB/H	1 HR BLOCK		,	+
											AVG, DOES NOT			AVG, DOES NOT			
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Auxiliary Boiler	Natural Gas		0 MMBtu/hr				9 PPMVD @ 3% O2	APPLY DURING	0.00	5 LB/MMBTU	APPLY DURING		,	
NIA-0039		1/30/2019		Natural Gas		O MINIDIDII	NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER		0.	9 FF SI V D (0) 3 / 0 O2	33	0.00	J LESMINIST C	33		1	
	WILDCAT POINT		AUXILLARY			a la marrier	TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000	EXCLUSIVE USE OF PIPELINE			3-HOUR BLOCK						
*MD-0042	GENERATION FACILITY	4/8/2014	BOILER	NATURAL GAS	4	5 MMBTU/H	MMBUT/HR PER 12-MONTH ROLLING PERIOD The suxiliary boiler will have a maximum rated heat capacity of 91.6 MMBtu/h and will be limited.	QUALITY NATURAL GAS	0.000	6 LB/MMBTU	AVERAGE		0)	+
							to natural gas firing only. It will be operated for the purposes of supplying steam during the start-										
			Commercial/Instituti				up of the combined cycle unit.										
	WOODBRIDGE ENERGY		onal size boilers less				The auxiliaryboiler will be equipped with Dry Low-NOx Burners to comply with BACT and				AVERAGE OF						
NJ-0079	CENTER HESS NEWARK ENERGY	7/25/2012	than 100 MMBtu/hr Boiler less than 100	natural gas	200	0 hours/year	LAER.	Use of natural gas	0.163	2 LB/H	THREE TESTS		0				
NJ-0080	CENTER	11/1/2012	MMBtu/hr	Natural Gas	66.	2 MMBtu/hr		use of natural gas a clean fuel and a low sulfur fuel	0.00	6 LB/H			0				
							THE BACT DETERMINATIONS REPORTED HERIN ARE SPECIFICALLY FOR THE										
							TWO HURST BOILERS INSTALLED AT CAESAR'S PALACE, EACH OF THEM HAS A										
							RATED HEAT INPUT OF 35.4 MMBTU/HR. THE PERMITTING ACTION ALSO										
							APPROVED THE INSTALLATION OF A NUMBER OF SMALL BOILERS, ALL OF WHICH HAVE A RATED HEAT INPUT BELOW THE THRESHOLD OF INSTITUTIONAL SIZE.										
							NATURAL GAS IS THE ONLY FUEL USED FOR ALL BOILERS FOR THIS FACILITY.										
	HARRAHS OPERATING		COMMERCIAL/IN				THE TOTAL INCREASE OF RATED HEAT INPUT FOR ALL THE NEW BOILERS IS 100.3 MMBTU/HR. THE TWO NEW HURST BOILERS HAVE THE COMBINED RATED HEAT	USE OF NATURAL GAS AS THE									
NV-0044	COMPANY, INC.	1/4/2001	SITE BOILERS	NATURAL GAS	35	4 MMBTU/H	INPUT OF 70 8 MMRTI/HR ACCOUNTING FOR 70% OF THE TOTAL INCREASE	ONLY FUEL	0.00	I LR/MMRTU		0.0	4 I B/H		0.00	LB/MMRTU	
			BOILERS/HEATER				THE FACILITY HAS 125 REGULATED UNITS AND 142 EXEMPT UNITS. UNIT RB013										
NV-0047	NELLIS AIR FORCE BASE	2/26/2000	S - NATURAL GAS FIRED	NATURAL GAS	_	5 MMBtu/hr	(RITE BOILER, 6.5 MMBTU/HR) IS SELECTED TO SHOW THE BACT DETERMINATIONS.	USE OF PIPELINE-QUALITY NATURAL GAS	0.001	5 LB/MMBTU		0.0	1 LB/H	1	0.001:	LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT				UNIT FL01 IS A JOHNSTON BOILER AT FLAMINGO LAS VEGAS. THIS UNIT MAY										
NV-0049	COMPANY, INC.	8/20/2009	FL01	NATURAL GAS	14.3	4 MMBTU/H	OPERATE 8,760 HOURS PER YEAR. UNIT BA01 IS A KEWANEE BOILER AT BALLY'S LAS VEGAS. UNIT BA01 IS	FUEL IS LIMITED TO NATURAL GAS	0.000	6 LB/MMBTU		0.009	1 LB/H	+	0.000	LB/MMBTU	1
	HARRAH'S OPERATING		BOILER - UNIT				IDENTICAL TO UNIT BA02. THE TWO BOILERS ARE SUBJECT TO THE ANNUAL		1					1			
NV-0049	COMPANY, INC.	8/20/2009	BA01	NATURAL GAS	16.	8 MMBTU/H	LIMIT OF COMBINED TOTAL OPERATING TIME FOR 10,900 HOURS PER YEAR.	FUEL IS LIMITED TO NATURAL GAS	0.004	2 LB/MMBTU		0.0	1 LB/H		0.004	LB/MMBTU	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT	NATURAL GAS	31 3	8 MMBTU/H	UNIT BA03 IS A KIWANEE BOLER AT BALLY'S LAS VEGAS. THE ANNUAL OPERATING TIME IS LIMITED TO 2.920 HOURS PER YEAR.	FUEL IS LIMITED TO NATURAL GAS	0.000	6 LB/MMRTU		0.0	2 LB/H	1	0.000	I R/MMRTU	
		3/20/2009		UKU UKU	31.3				3.000			0.0			0.000		1
	HARRAH'S OPERATING		BOILER - UNIT	1	1		UNIT CPOLIS A HURST BOILER AT CAESAR'S PALACE. UNIT CPOLIS IDENTICAL TO		1					1		1	
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT CP01	NATURAL GAS	35.	4 MMBTU/H	UNIT CP02. UNITS CP01 THROUGH CP05 (FIVE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR.	FUEL IS LIMITED TO NATURAL GAS	0.000	6 LB/MMBTU		0.0	2 LB/H	1	0.000	LB/MMBTU	
							UNIT CP03 IS A BURNHAM BOILER AT CAESAR'S PALACE. UNITS CP01 THROUGH										
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	BOILER - UNIT CP03	NATURAL GAS	33.4	8 MMBTU/H	CP05 (FIVE BOILERS) ARE SUBJECT TO THE ANNUAL LIMIT OF TOTAL OPERATING TIME FOR 33,520 HOURS PER YEAR.	FUEL IS LIMITED TO NATURAL GAS	0.000	6 LB/MMBTU		0.0	2 LB/H	1	0.000	LB/MMBTU	
	HARRAH'S OPERATING		BOILER - UNIT				UNIT CP26 IS A UNILUX BOILER AT CAESAR'S PALACE. THE UNIT IS ALLOWED TO										
NV-0049	COMPANY, INC.	8/20/2009	CP26	NATURAL GAS	2	4 MMBTU/H	OPERATE UP TO 8,760 HOURS PER YEAR. UNIT IP04 IS A KEWANEE BOILER AT IMPERIAL PALACE. UNIT IP04 IS IDENTICAL	FUEL IS LIMITED TO NATURAL GAS	0.000	6 LB/MMBTU		0.0	1 LB/H	+	0.000	LB/MMBTU	+
	HARRAH'S OPERATING		BOILER - UNIT			1	UNIT IP04 IS A KEWANEE BOILER AT IMPERIAL PALACE. UNIT IP04 IS IDENTICAL TO UNIT IP05. EITHER BOILER IS ALLOWED TO OPERATE UP TO 8,760 HOURS PER		1								
NV-0049	COMPANY, INC.	8/20/2009		NATURAL GAS	16.	7 MMBTU/H	YEAR.	FUEL IS LIMITED TO NATURAL GAS	0.000	6 LB/MMBTU		0.0	1 LB/H		0.000	LB/MMBTU	1
			BOILERS - UNITS				THE THREE UNITS ARE IDENTICAL NEBRASKA BOILERS. EACH OF WHICH IS									1	
			CC001, CC002,				RATED AT 41.64 MMBTU/HR. EACH UNIT IS ALLOWED TO OPERATE 24 HOURS/DAY		1					1			
			AND CC003 AT		1	La marra	AND UP TO 5,800 HOURS/ YEAR. THE EMISSION LIMITS REPORTED HEREIN ARE	LIMITING THE FUEL TO NATURAL	1					1			
NV-0050	MGM MIRAGE	11/30/2009	CITY CENTER BOILERS - UNITS	NATURAL GAS	41.6	4 MMBTU/H	BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006. THE THREE UNITS ARE IDENTICAL CATERPILLAR BOILERS, EACH RATED AT 44	GAS ONLY.	0.000	7 LB/MMBTU		0.5	2 LB/D	1	0.000	LB/MMBTU	+
	İ		CC026, CC027 AND		1		MMBTU/HR. EACH UNIT IS SUBJECT TO THE ANNUAL LIMIT OF OPERATING TIME		1					1		1	
		1	CC028 AT CITY	1	1	1	TO 5,800 HOURS. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR	LIMITING THE FUEL TO NATURAL	1	1	I	1	1	1	1	1	
NTV 0050	MCMATRACE	1100000		NIATED AT CO.		ANDTHU		CACONTY	0.000								
NV-0050	MGM MIRAGE CAITHNES BELLPORT	11/30/2009	CENTER	NATURAL GAS		4 MMBTU/H 4 MMBTU/H	MODIFICATION #13 DATED NOVEMBER 30, 2009.	GAS ONLY	0.000	7 LB/MMBTU		0.0	3 LB/H		0.000	LB/MMBTU	1

									TEMISSION		AVGTIME	IEMISSION		AVGTIME	ISTANDARAD		IAVG TIME
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION		UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			i e				TWO BOILERS WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION. WITH			i	<u> </u>	i i	 				
							#2 OIL BACKUP										
	TOLEDO SUPPLIER PARK- PAINT SHOP		BOILER (2), NATURAL GAS	NATURAL GAS			TWO SET OF LIMITS. THIS ONE FOR NATURAL GAS			1 LB/H						LB/MMBTU	
OH-0309 *OH-0350	PAINT SHOP REPUBLIC STEEL		NATURAL GAS Steam Boiler	NATURAL GAS Natural Gas	20.	4 MMBTU/H 5 MMBtu/H	TWO SET OF LIMITS, THIS ONE FOR NATURAL GAS Natural Gas-fired stam boiler to vacuum tank degasser	Natural Gas		1 LB/H 7 LB/H			4 T/YR 6 T/YR		0.0006	LB/MMBTU	+
011-0330	REPUBLIC STEEL	//10/2012	AUXILIARY	Natural Gas		ONIMIDIUM	Natural Gas-fried staff borier to vacuum tafik degasser	Ivaturai Gas	0.03	/ 1.15/11		0.1	0 1/1K		0		+
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	BOILER	NATURAL GAS	33.	5 MMBTU/H		LOW SULFUR FUEL	0.0	3 LB/H		0.0009	0 LB/MMBTU		0		
			BOILERS #1 AND				THE BOILERS WILL PROVIDE THE STEAM NEEDED TO OPERATE THE VARIOUS										
OK-0135	PRYOR PLANT CHEMICAL	2/23/2009	#2	NATURAL GAS	8	0 MMBTU/H	PIECES OF EQUIPMENT AT THE FACILITY.		0.	2 LB/H		0.	2 LB/MMBTU	STATE LIMIT	0		
	HICKORY RUN ENERGY		AUXILIARY											12-MONTH			
*PA-0291	STATION	4/23/2013	BOILER	Natural Gas	4	0 MMBTU/H			0.002	1 LB/MMBTU		0.1	9	ROLLING TOTAL	. 0		
											BASED ON 12-						
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/2012	Auxiliary Boiler	Natural Gas	l .	0 MMBtu/hr		Natural Gas		9 T/YR	MONTH ROLLING TOTAL						
*PA-0296	ASSOC LLC/ONTELAUNEE	12/17/2013	Auxiliary Boiler	Natural Gas	4	0 MMBtu/hr		Natural Cas	0.1	9 1/YK	ROLLING TOTAL	-	0		0		+
			VACUUM					NATURAL GAS COMBUSTION WITH									
			DEGASSER					GOOD COMBUSTION PRACTICES									
SC-0112	NUCOR STEEL - BERKELEY	5/5/2008	BOILER	NATURAL GAS	50.2	1 MMBTU/H		PER MANUFACTURER'S GUIDANCE	0.000	6 LB/MMBTU			0		0.0006	LB/MMBTU	
	PORT OF BEAUMONT PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size					Good combustion practice to ensure									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas		0 MMBtu/hr	Hot oil heater	complete combustion.		5 GR S/100 SCF			0		0		
130-0772	PORT OF BEAUMONT	11/02013	Commercial/Instituti		· ·		The off heart	compacte combustion.		J CAR D 100 DC1					· ·		1
	PETROLEUM TRANSLOAD		onal-Size				Three boilers will be used intermittently to provide steam for heating tanks or railcars as necessary		r								
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	95.	7 MMBtu/hr	to reduce viscosity of heavy liquids.	equal to 5 grains/100 dscf.		5 GR S/100 SCF			0		0		
	PORT OF BEAUMONT PETROLEUM TRANSLOAD		Commercial/Instituti onal-Size				Boiler will be operated continuously to maintain system temperatures in the intermittent boilers	Good combustion practice to ensure									
*TX-0772	TERMINAL (PBPTT)	11/6/2015	Boilers/Furnaces	natural gas	13	2 MMBtu/hr	and heavy liquid storage tanks.	complete combustion.		5 GR S/100 SCF			0		0		
130-0772	Footprint Power Salem Harbor	11/02013	DOMEST WILLIAMS	Timetarin gas	1.0		and neary require storage tanks.	compacte combustion.		J CAR DI 100 DEI					1		+
	Development LP		Auxiliary Boiler	Natural Gas	8	0 MMBtu/hr		Pipeline quality NG	0.1	2 LB/H	1-hr average	0.001	5 lb/MMBtu	1-hr average			
	Footprint Power Salem Harbor					0 MMBtu/hr		N. F. S. S.		PPMVD @ 15%							
	Development LP CPV Valley Energy Center		Auxiliary Boiler	Natural Gas	8	0 MMBtu/hr		Pipeline quality NG	0.	9 02	1-hr average						+
	Wawayanda, NY		Auxiliary Boiler	Natural Gas	73.	5 MMBtu/hr		Low sulfur fuel.	0.002	2 LB/MMBTU	1-hr average						
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	10	6 MMBTU/hr			0.00	3 LB/MMBTU	12 month-period	0.	3 LB/H	12 month-period			
	SUNBURY GENERATION LP			Natural Gas		6 MMBTU/hr				6 T/YR							
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	10	6 MMB1U/hr			0.	6 I/YK							+
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	1	5 MMBTU/hr			0.00	3 LB/MMBTU	12 month-period	0.0	4 LB/H	12 month-period			
									-			-					
	SUNBURY GENERATION LP		Auxiliary Boiler	Natural Gas	1	5 MMBTU/hr			0.1	7 T/YR							
	LAWRENCE ENERGY																
-	CENTER LLC PA STATE UNIV/UNIV PARK		Auxiliary Boiler	Natural Gas	,	9 MMBTU/hr		-	0.005	7 LB/MMBTU	-	0.5	6 LB/H	12 month-period	ļ		+
	CAMPUS	1	WCSP Boiler 1	Natural Gas	140 19	6 MCF/hr		1		4 LB/H	1						1
	PA STATE UNIV/UNIV PARK																1
	CAMPUS		WCSP Boiler 2	Natural Gas	140.19	6 MCF/hr				4 LB/H							
	PA STATE UNIV/UNIV PARK					Long											
-	CAMPUS PA STATE UNIV/UNIV PARK		WCSP Boiler 5	Natural Gas	66.17	6 MCF/hr		-	-	4 LB/H	-	1	-		ļ		+
	CAMPUS	1	WCSP Boiler 6	Natural Gas	151 9	6 MCF/hr		1		4 LB/H	1						1
	PA STATE UNIV/UNIV PARK											1	1		1		
	CAMPUS		WCSP Boiler 8	Natural Gas	151.9	6 MCF/hr				4 LB/H							
	PA STATE UNIV/UNIV PARK																
—	CAMPUS PA STATE UNIV/UNIV PARK	-	ECSP Boiler 1	Natural Gas	127.4	5 MCF/hr		+	-	4 LB/H	_	1	1	+	1		+
1	CAMPUS	1	ECSP Boiler 2	Natural Gas	127.4	5 MCF/hr		1		4 LB/H	1						1
			Auxiliary Boilers #1		127.4			1			1						+
	St. Joseph's Energy Center		and #4	Natural Gas		2 MMBtu/hr				2 LB/MMBTU	3-hr	0.17	6 LB/H	3-hr			
	York Energy Center Block 2	42170	Auxiliary Boiler	Natural Gas	6	1 MMBtu/hr			0.	4 T/YR							
																	1
	MOUNDSVILLE COMBINED CYCLE POWER PLANT		Auxiliary Boiler	Natural Gas		0 MMBtu/hr				6 LB/H			6 T/YR				1
	CICLEFOWERPEANI	417/3	Auxiliary Boller	Ivaturai Gas	10	MMDIUIII			0.0	O LINTI	1	0.0	O I / I K				

Table D-B-8 Sulfuric Acid Mist (H₂SO₄) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	DANIA BEACH ENERGY		99.8 MMBtu/hr														T
L-0363	CENTER	12/4/2017	auxiliary boiler	Natural gas	99.	8 MMBtu/hr	Fueled only with natural gas.	Clean fuels		2 GR S/100 SCF			0		(
	BELLE RIVER COMBINED		EUAUXBOILER:				A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the				FUEL SUPPLIER						
MI-0435	CYCLE POWER PLANT	7/16/2018	Auxiliary Boiler	Natural gas	99.	MMBTU/H	CTG/HRSG trains and to provide steam to the steam turbine generator seals. The auxiliary boiler		0.3	4 GR S/100 SCF	RECORDS		0		(
	PSEG FOSSIL LLC		Auxiliary Boiler				Maximum heat input rate for natural gas fired auxiliary boiler is 80 MMBtu/hr (HHV) permitted to		l	O LR/H							
J-0084	SEWAREN GENERATING MIDDLESEX ENERGY	3/10/2016	firing natural gas AUXILIARY	natural gas	68	7 MMCFT/YR	operate for 8760 hrs/yr.	Use of natural gas a low sulfur fuel USE OF NATURAL GAS A CLEAN	0.0	2 LB/H			0		-		+
1-0085	CENTER LLC	7/10/2014	BOILER	Natural GAS	400	0 H/YR		BURNING AND LOW SULFUR FUEL	0.0	1 LB/H			0				
2-0003	CRICKET VALLEY ENERGY		BOILER	Natural GAS	400	O II I K		natural gas with maximum sulfur content	0.0	LIET			0		,		+
Y-0103	CENTER		Auxiliary boiler	natural gas	6	MMBTU/H	Limited to 4,500 H/YR	0.4 grains/100 dscf	1	1 10-4 LB/MMBTU	1 H		0				
1-0103	CPV FAIRVIEW ENERGY	23/2010	/ Auxinia y conci	mataran gas		, man rown	Limited to 4,500 fa FK	0.4 game 100 days	-	1 10-4 ED MINDTO	AVG OF 3 1-HR			12-MONTH			
PA-0310	CENTER	9/2/2016	Auxilary boiler	Natural Gas	92.	4 MMBtu/hr	Operation of the auxiliary boiler shall not exceed 4000 hrs in any continuous 12-month period.	ULSD and good combustion practices	0.001	1 LB/MMBTU	TEST RUNS		0 TPY	ROLLING BASIS			
	HARRISON COUNTY																
WV-0029	POWER PLANT	3/27/2018	Auxiliary Boiler	Natural Gas	77.	8 mmBtu/hr	Annual emission based on 4600 hours/year.	Use of Natural Gas	0.013	2 LB/HR		0.0	3 TONS/YEAR		0.0002	LB/MMBTU	
											AVERAGE OF 3						
	MARSHALLTOWN							Use of natural gas, limit of 288.7 MMSCF			ONE-HOUR TEST	1					
IA-0107	GENERATING STATION	4/14/2014	auxiliary boiler	natural gas	60.	1 mmBtu/hr	fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period	of NG per year	0.005	5 LB/H	RUNS		0		(
											1 HR BLOCK AVG, DOES NOT			1 HR BLOCK AVG, DOES NOT			
	SALEM HARBOR STATION										APPLY DURING			APPLY DURING			
MA-0039	REDEVELOPMENT	1/30/201/	Auxiliary Boiler	Natural Gas		MMRm/hr			0.000	9 LB/MMRTU	APPLY DURING	0.5	5 PPMVD @ 3% O				
VLA-0039	REDEVELOFMENT	1/30/2014	Auxiliary Boliet	Naturai Gas		/ MMDu/iii		LOW SULFUR NATURAL GAS WITH	0.000	9 LISMINIDIO	33	0	J FFM VD (a) 370 O.	2 33	· '		+
								A SULFUR CONTENT OF 2.0 GR/100									
								SCF ON A SHORT-TERM BASIS AND									
								0.3 GR/100 SCF ON AN ANNUAL									
ID-0040	CPV ST CHARLES	11/12/2008	BOILER	NATURAL GAS	9	MMBTU/H	AUXILIARY BOILER	BASIS	0.000	1 LB/MMBTU	3-HR AVERAGE		0		(
		1					NATURAL GAS FUEL ONLY, OPERATION OF ULTRA LOW-NOX BURNER				I						
MD-0042	WILDCAT POINT		AUXILLARY			A D CONTEST	TECHNOLOGY, GOOD COMBUSTION PRACTICES, MAX HEAT INPUT OF 90,000	EXCLUSIVE USE OF PIPELINE		4 LR/MMRTU	3-HOUR BLOCK AVERAGE						
MD-0042	GENERATION FACILITY	4/8/2014	BOILER	NATURAL GAS	4	MMBTU/H	MMBUT/HR PER 12-MONTH ROLLING PERIOD	QUALITY NATURAL GAS	0.00	4 LB/MMBTU	AVERAGE		0		,		
	OREGON CLEAN ENERGY						99 MMBTU/H auxillary boiler with low-NOx burners and flue gas re-circulation, burning only							PER ROLLING 1	,		
OH-0352	CENTER	6/18/2013	Auxillary Boiler	Natural Gas		MMBtu/H	natural gas. Boiler restricted to 2000 hours of operation per rolling 12-months.	only burning natural gas 0.5 GR/100 SCF	0.01	1 LB/H		0.01	1 T/YR	MONTHS		LB/MMBTU	
																	_
	HICKORY RUN ENERGY	1	AUXILIARY											12-MONTH			
PA-0291	STATION	4/23/2013	BOILER	Natural Gas	4	MMBTU/H			0.000	5 LB/MMBTU		0.0	4 T/YR	ROLLING TOTA	L (
		1															
		1									BASED ON 12-						
PA-0296	BERKS HOLLOW ENERGY			h		.ham. i			I	Jan	MONTH				l .	1	
PA-0296	ASSOC LLC/ONTELAUNEE Footprint Power Salem Harbor	12/17/2013	Auxiliary Boiler	Natural Gas	4	0 MMBtu/hr			0.0	4 T/YR	ROLLING TOTAL	-	0	1	-		+
	Development LP		Auxiliary Boiler	Natural Gas		MMRm/hr		Pipeline quality NG	0.07	2 LB/H	1-hr average	0.000	9 lb/MMRm	1-hr average			
	Footprint Power Salem Harbor		, tuxuum y Dollet	Trucum CdS		,		I speame quanty a to	1 0.07	PPMVD @ 15%	1-m average	0.000	, in minister	1-m avelage			
	Development LP		Auxiliary Boiler	Natural Gas	8	MMBtu/hr		Pipeline quality NG	0.3	5 02	1-hr average		1	1	1	1	1
	CPV Valley Energy Center								I								T
	Wawayanda, NY		Auxiliary Boiler	Natural Gas	73.	5 MMBtu/hr		Low sulfur fuel.		2 LB/MMBTU	1-hr average						
	Hess Newark Energy Center		Auxilary Boiler	Natural Gas		2 MMBtu/hr				6 LB/H							
	Woodbridge Energy Center		Auxiliary Boiler	Natural Gas	91.	6 MMBtu/H		Use of natural gas	0.0001	4 LB/MMBTU		0.01	2 LB/H				
	W 1 P 0 1 P1 1 1		J	h		.h.a		Use of natural gas with sulfur content									
	York Energy Center Block 2	42170	Auxiliary Boiler	Natural Gas	- 6	1 MMBtu/hr		limited to 0.5 gr/ 100 dscf	0.00004	6 lb/MMBtu	+	0.012	2 T/YR			-	+
	MOUNDSVILLE COMBINED	,[1				
	CYCLE POWER PLANT		Auxiliary Boiler	Natural Gas	10	0 MMBtu/hr		1	1 00	1 LB/H		0.0	1 T/YR	1	1	1	1
		4177.	p many Located	1	, 10	- 1	l .	I .	1 0.0	-1	1	0.0	-1	1	1		

Table D-B-9 Greenhouse Gases (GHG) RBLC Search - Auxiliary Boiler Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	BBOCECC NAME	DDD44DV PUPI	THROUGHBUT	THROUGHPUT UNIT	MOCCES NOTES	CONTROL METHOD DESCRIPTION	EMISSION	UNIT	AVGTIME	EMISSION LIMIT 2	UNIT	AVGTIME	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
RBLCID	OKEECHOBEE CLEAN	PERMIT ISSUANCE DATE	Auxiliary Boiler,	PRIMARY FUEL			PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMITT	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
FL-0356	ENERGY CENTER	3/9/2016	99.8 MMBtu/hr	Natural gas	99	.8 MMBtu/hr	Fires only natural gas. Limited to 2000 hr/yr.	Use of natural gas only		0		-	0		()	
IN-0263	MIDWEST FERTILIZER COMPANY LLC	03/23/2017 ACT	NATURAL GAS AUXILIARY	NATURAL GAS	218	.6 MMBTU/H		GOOD COMBUSTION PRACTICES AT ALL TIMES THE BOILERS ARE IN	59.6	TON/MMCF EACH	3 HOUR AVERAGE	1877.3	MMCF/12 MONTH EACH	ROLLING AVERAGE		0	
	LAKE CHARLES		Auxiliary Boilers and				Supplement fuel: fuel gas	good equipment design and good									\top
LA-0305	METHANOL FACILITY	6/30/2016	Superheaters	Natural Gas		0	Boilers: 225 MM BTU/hr each	combustion practices good combustion/operating/maintenance	 '	0		<u> </u>	0	1	(4	+
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Auxiliary boilers	natural gas	17	71 mm btu/hr		practices and fueled by natural gas		0			0		(3	
MI-0420	DTE GAS COMPANY MILFORD COMPRESSOR	6/3/2016	FGAUXBOILERS	Natural gas		6 MMBTU/H	Two natural gas-fired auxiliary boilers, each rated at 6 MMBTU/H fuel heat input. The boilers are identified as EUAUXBOIL2 and EUAUXBOIL3 within the flexible group FGAUXBOILERS.	Use of pipeline quality natural gas and energy efficiency measures.	615	S T/YR	12-MO ROLLING TIME PERIOD	Ι.	0			0	
			EUAUXBOILER					Energy efficiency measures and the use of			12-MO ROLLING						
MI-0423	INDECK NILES, LLC HOLLAND BOARD OF	1/4/2017	(Auxiliary Boiler) EUAUXBOILER	natural gas	18	2 MMBTU/H	One natural gas-fired auxiliary boiler rated at 182 MMBTU/H fuel heat input.	a low carbon fuel (pipeline quality natural	9334	5 T/YR	TIME PERIOD 12-MO ROLLING	-	0		(4	
MI-0424	PUBLIC WORKS - EAST 5TH	12/5/2016	(Auxiliary boiler)	natural gas	83	.5 MMBTU/H	One natural gas fired auxiliary boiler rated at 83.5 MMBTU/hr fuel heat input (EUAUXBOILER).	Good combustion practices.	4328	T/YR	TIME PERIOD		0		(3	
MI-0426	DTE GAS COMPANY - MILFORD COMPRESSOR	3/24/2017	FGAUXBOILERS (6 auxiliary boilers	Natural gas		3 MMBTU/H	Four natural gas-fired auxiliary boilers, each rated at 3 MMBTU/H fuel heat input (EUAUXBOIL2A, EUAUXBOIL3A, EUAUXBOIL2B and EUAUXBOIL3B in	Use of pipeline quality natural gas and energy efficiency measures.	732	T/YR	COMBINED FOR ALL BOILERS	Ι.	0			0	
	MEC NORTH, LLC AND MEC		EUAUXBOILER				A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	Energy efficiency measures and the use of			12-MO ROLLING				,		
*MI-0433	SOUTH LLC MEC NORTH LLC AND MEC	6/29/2018	(North Plant): EUAUXBOILER	Natural gas	61	5 MMBTU/H	CTGHRSG train and to provide the required steam to support the startup of the facility, including A natural gas-fired auxiliary boiler, rated at 61.5 MMBTU/H (HHV) to facilitate startup of the	a low carbon fuel (pipeline quality natural Energy efficiency measures and the use of	3154	T/YR	TIME PERIOD 12-MO ROLLING	-	0	_	(-	+
*MI-0433	SOUTH LLC	6/29/2018	(South Plant):	Natural gas	61	.5 MMBTU/h	CTGHRSG train and to provide the required steam to support the startup of the facility, including	a low carbon fuel (pipeline quality natural	3154	T/YR	TIME PERIOD		0		(J	
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUAUXBOILER: Auxiliary Boiler	Natural gas	99	9 MMBTU/H	A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/H to facilitate startup of the CTG/HRSG trains and to provide steam to the steam turbine generator seals. The auxiliary boiler	Energy efficiency measures, use of natural	2562	3 T/YR	12-MO ROLLING TIME PERIOD	Ι.	0			0	
	CRICKET VALLEY ENERGY							good combustion practiced and pipeline									1
NY-0103	CENTER ODESSA PETROCHEMICAL	2/3/2016	Auxiliary boiler	natural gas		60 MMBTU/H	Limited to 4,500 H/YR	quality natural gas Minimum thermal design efficiency of 75	119	LB/MMBTU	12 MO		0		(4	+
TX-0813	PLANT	11/22/2016	Boilers	natural gas	22	3 MMBTU/H	2 boilers	percent	6379	5 T/YR			0		(J	
*WV-0029	HARRISON COUNTY POWER PLANT	3/27/2018	Auxiliary Boiler	Natural Gas	77	.8 mmBtu/hr	Annual emission based on 4600 hours/year.	Use of Natural Gas	910	7 LB/HR		2083	TONS/YEAR		9107	7 I B/HR	
	MOCKINGBIRD HILL				,,,			Limited to natural gas; and tune-up the	1			2003			7107		12-MONTH
*WV-0031	COMPRESSOR STATION MOCKINGBIRD HILL	6/14/2018	WH-1 - Boiler EG-1 - Auxiliary	Natural Gas	8.3	72 mmBtu/hr	Used to generated heat for the new building associated with the project during the heating season. Used to supply electrical power to the facility in the event of loss of service from the local	boiler once every five years. Engine Manufacturer's design; limited to		0		_	0		4468	8 TON/YEAR	ROLLING 12-MONTH
*WV-0031	COMPRESSOR STATION	6/14/2018	(Emergency)	Natural Gas	75	55 hp	provider.	natural gas; and tune-up the engine once	-	0			0		161	1 TON/YEAR	ROLLING
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2015	Five (5) Waste Heat Boilers	Natural Gas		50 MMBtu/hr	Five (5) Natural Gas-Fired 50 MMBtu/hr Waste Heat Boilers. Installed in 1986.		59.6	TONS/MMCF	3-HR AVG	13140	T/YR	COMBINED		0	
			VACUUM DEGASSER						1								
AL-0231	NUCOR DECATUR LLC	6/12/2007	BOILER	NATURAL GAS	9	95 MMBTU/H			0.06	LB/MMBTU		5.3	8 LB/H			D	
*AL-0282	LENZING FIBERS, INC.	1/22/2014	Natural Gas Fired Boilers (3)	Natural Gas		00 mm btu/hr		Good combustion practices	11250	8 T/YR	12 - MONTH ROLLING						
*AL-0282		1/22/2014	Bollers (3)	Naturai Gas	10	0 mm biu/nr		Good combustion practices	11230	SI/IR			0		,	+	
*IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	auxiliary boiler	natural gas	(0)		fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period		1771	3 T/YR	12-MONTH ROLLING TOTAL	Ι.					
*1A-010/		4/14/2014	auxinary botter	naturai gas	60	.i mmbu/nr	iuei iimit oi 288./ miinon cuote teet oi naturai gas per 12-month roiling period		1/31.	5 1/ TR		·			,	1	1
*IA-0107	MARSHALLTOWN GENERATING STATION	4/14/2014	auxiliary boiler	natural gas	60	.1 mmBtu/hr	fuel limit of 288.7 million cubic feet of natural gas per 12-month rolling period		1721	3 T/YR	12-MONTH ROLLING TOTAL	Ι.					
174-0107	GENERATING STATION	4142014	auxiliary boller	naturai gas		. i illinista ili	toer mine of 208.7 minion cause reet of natural sgss per 12-mount forming period	OPERATION AND MAINTENANCE PRACTICES; COMBUSTION	1731.	3 17 IK	ROLLING TOTAL	1			,	1	+
			TWO (2)					TURNING; OXYGEN TRIM CONTROLS & ANALYZERS; ECONOMIZER; ENERGY EFFICIENT									
	ST. JOSEPH ENEGRY		NATURAL GAS AUXILIARY				BOTH BOILERS, LABELED AS B001 AND B002, ARE EQUIPPED WITH LOW NOX BURNERS WITH FLUE GAS REGULATION. THIS IS CONSIDERED A STEAM	REFRACTORY; CONDENSATE RETURN SYSTEM, INSULATE			CONSECUTIVE						
*IN-0158	CENTER, LLC	12/3/2012	BOILERS	NATURAL GAS	8	MMBTU/H	GENERATING UNIT.	STEAM AND HOT LINES.	8199	5 T/YR	MONTH PERIOD	8	% HHV		(3	
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Auxiliary Boiler	Natural Gas	,	0 MMBtu/hr			119	LB/MMBTU		Ι.	0			0	
			EGALIXBOILERS:				There are two auxiliary boilers each rated at less than 100 MMBTU/H heat input.										
			Two auxiliary boilers				There are two auximary obiters each fared at ress than 100 MWHS 10/11 freat input.				12-MO ROLL						
*MI-0410	THETFORD GENERATING STATION	7/25/2013	< 100 MMBTU/H		.,,	MMBTU/H heat input	Fuel usage limited to not more than 416.3 MMscf of natural gas in each boiler per 12-month	recition to the state of the st	2420	T/YR	TIME PERIOD EACH MONTH	Ι.					
*M1-0410	HOLLAND BOARD OF	//23/2013	heat input each	natural gas	10	o each	rolling timeperiod as determined at the end of each month.	Efficient combustion; energy efficiency.	2430	4 1/1R			,		,	1	_
*MI-0412	PUBLIC WORKS - EAST 5TH STREET	12/4/2013	Auxiliary Boiler B (EUAUXBOILERB)	natural gas		5 MMBTU/H	One natural gas-fired auxiliary boiler rated at 95 MMBtu/hr fuel heat input (EUAUXBOILERB within flexible group FGAUXBOILERS).	Good combustion practices	4025	T/YR	12-MO ROLLING TIME PERIOD	Ι.					
MIPO412	HOLLAND BOARD OF	12/4/2013		naturai gas	,	O MMBTO/II		Good combustion practices	4923	IIII III		<u> </u>			,	1	+
*MI-0412	PUBLIC WORKS - EAST 5TH STREET	12/4/2013	Auxiliary Boiler A (EUAUXBOILERA)	natural gas		SS MMBTU/H	One natural gas-fired auxiliary boiler rated at 55 MMBTU/hr fuel heat input (EUAUXBOILERA within flexible group FGAUXBOILERS).	Good combustion practices	2851	T/YR	12-MO ROLLING TIME PERIOD	Ι.	0			0	
		1242013							1 2001						T (
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Auxillary Boiler	Natural Gas	.	99 MMBtu/H	99 MMBTU/H auxillary boiler with low-NOx burners and flue gas re-circulation, burning only natural gas. Boiler restricted to 2000 hours of operation per rolling 12-months.		1167	T/YR	PER ROLLING 12 MONTHS	1	0			a	
	TROUTDALE ENERGY CENTER, LLC	3/5/2014	A			.8 MMBtu/hr		Classification		7 LB CO2/MMBTU	3-HR BLOCK AVERAGE						
*OR-0050	TROUTDALE ENERGY		Auxiliary boiler	natural gas				Clean fuels	111		3-HR BLOCK	<u> </u>			1	+	+
*OR-0050	CENTER, LLC HICKORY RUN ENERGY	3/5/2014	Auxiliary boiler	natural gas	39	.8 MMBtu/hr		Clean fuels	11'	LB CO2/MMBTU	AVERAGE 12 MONTH	1	0		(4	+
*PA-0291	STATION	4/23/2013	AUXILIARY BOILER	Natural Gas	4	0 MMBTU/H			1369	5 T/YR	12-MONTH ROLLING BASIS		0		(ð	
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Auxiliary Boiler	Natural Gas		0 MMBtu/hr			1224	5 T/YR						0	
PA-0290	PORT OF BEAUMONT	12/17/2013	Commercial/Instituti	ivatdrai Gas	· ·	N MADIU/III			1234	2 1/ 1 R					,	 	+
*TX-0772	PETROLEUM TRANSLOAD TERMINAL (PBPTT)	11/6/2015	onal-Size Boilers/Furnaces	natural gas] .	0 MMBtu/hr	Hot oil heater	Good combustion practice to ensure complete combustion.	2075	8 T/YR		1 .			1	0	
120-0112	PORT OF BEAUMONT	11/0/2015	Commercial/Instituti	стини доб					20/3			<u> </u>			1	T	1
*TX-0772	PETROLEUM TRANSLOAD TERMINAL (PBPTT)	11/6/2015	onal-Size Boilers/Furnaces	natural gas	94	.7 MMBtu/hr	Three boilers will be used intermittently to provide steam for heating tanks or railcars as necessary to reduce viscosity of heavy liquids.	Good combustion practices and use of low carbon fuel	11010	T/YR			0			0	
134-0772	PORT OF BEAUMONT	17/0/2013	Commercial/Instituti		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				.1313.						1		\top
*TX-0772	PETROLEUM TRANSLOAD TERMINAL (PBPTT)	11/6/2015	onal-Size Boilers/Furnaces	natural gas	13	2 MMBtu/hr	Boiler will be operated continuously to maintain system temperatures in the intermittent boilers and heavy liquid storage tanks.	Good combustion practice to ensure complete combustion.	685	T/YR		1	0			a	
	CHEYENNE PRAIRIE						· · · · · ·	good combustion practices and energy			12 MONTH				1		1
*WY-0075	GENERATING STATION Footprint Power Salem Harbor	7/16/2014	Auxiliary Boiler	natual gas	25.0	06 MMBtu/h		efficiency	1285	T/YR	ROLLING	 	D		-	+	+
	Development LP		Auxiliary Boiler	Natural Gas		80 MMBtu/hr		Pipeline quality NG		LB/MMBTU	1-hr average				1		
—	Hess Newark Energy Center Hess Newark Energy Center		Auxilary Boiler Auxilary Boiler	Natural Gas Natural Gas		2 MMBtu/hr 2 MMBtu/hr				LB/H LB/H	3-hr rolling	1			+	+	+
			Auxiliary Boiler		1508	MMBTU per 12 mo				3 T/YR							
	Kalama Energy Center			Natural Gas	1390	MMBTU per 12 mo					12-mo rolling				1	 	1
-	Kalama Energy Center		Auxiliary Boiler Auxiliary Boilers #1	Natural Gas	15987	70 rolling			935	3 T/YR	12-mo rolling	-			+	+	+
	St. Joseph's Energy Center		and #7	Natural Gas		35 MMBtu/hr			8199	5 T/YR	12 months				1		
	Woodbridge Energy Center		Auxiliary Boiler	Natural Gas	18	80 MMscf/yr			200	hrs/year operation							
			,				1		1 200						i .		

		PERMIT ISSUANCE	PROCESS	PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVGTIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1			LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Boilers and He	a Natural Gas	29.29	MMBtu/hr	Two (2) natural gas and diesel fired 2	Good Combustion Practices	0.154	LB/MMBTU (ULS	3-HOUR AVERAGE	0.098	LB/MMBTU (NA	T 3-HOUR AVERAG	. 0		
*AK-0084	DONLIN GOLD PROJECT		Two (2) Heate			MMBtu/hr	Two (2) 16.5 MMBtu/hr heaters (nat			LB/MMBTU (ULS				T 3-HOUR AVERAGE	0		i e
								Must have NOx emission design									
FL-0356	OKEECHOBEE CLEAN ENI		Two natural ga			MMBtu/hr	Fueled only with gas. May operate on			LB/MMBTU		0			0		
*FL-0363	DANIA BEACH ENERGY C	12/4/2017	Two natural ga	as Natural gas	9.9	MMBtu/hr		Manufacturer certification	0.1	LB/MMBTU	DESIGN VALUE	0			0		
								GOOD COMBUSTION									
IN-0263	MIDWEST FERTILIZER CO	3/23/2017	STARTUP HE	NATURAL	70	MMBTU/HR		PRACTICES good engineering practices, good	12.611	LB/H	3 HOUR AVERAG	200	H/YR		0		
								combustion technology, and use of									
LA-0305	LAKE CHARLES METHAN	6/30/2016	Gasifier Start-	Notural cas	23	MM BTU/hr (each)		clean fuels				۱ ،			0		
L1 0505	Later Charles Merraus	0.50.2010	Cusine Suit	Trutturur gus	2.5	Min Dr Com (cach)		good engineering design and							ı "		
LA-0305	LAKE CHARLES METHAN	6/30/2016	WSA Preheat I	B Natural Gas	0			practices and use of clean fuels	0			0			0		
LA-0307	MAGNOLIA LNG FACILIT		Regenerative I			mm btu/hr		good combustion practices	0			0			0		
MI-0423	INDECK NILES, LLC		FGFUELHTR			MMBTU/H	Two natural gas fired dew point heate			LB/H	HOURLY; EACH	0			0		
*MI-0435	BELLE RIVER COMBINED		EUFUELHTR			MMBTU/H	A natural gas-fired 20.8 MMBTU/H			LB/H	HOURLY	0			0		
*MI-0435	BELLE RIVER COMBINED	7/16/2018	EUFUELHTR	2 Natural gas	3.8	MMBTU/H	A natural gas-fired 3.8 MMBTU/H b	Low NOx burner	0.14	LB/H	HOURLY	0			0		
I				1				1						1			
	MARSHALLTOWN		dew point								3-HOUR						
*IA-0107	GENERATING STATION	4/14/2014	heater	natural gas	13.32	mmBtu/hr			0.013	LB/MMBTU	AVERAGE	0			0		
				NATURAL													
MD-0040	CPV ST CHARLES	11/12/2008	HEATER	GAS	1.7	MMBTU/H	FUEL GAS HEATER		0.1	LB/MMBTU		0			0		
								USE OF EFFICIENT DESIGN									
								OF THE HEATER, EXCLUSIVE									
								USE OF PIPELINE QUALITY									
	WILDCAT POINT							NATURAL GAS ONLY, AND			3-HOUR						
	GENERATION		DEW POINT	NIATIDAL				APPLICATION OF GOOD			BLOCK						
*MD-0042	FACILITY	4/8/2014	HEATER	GAS		MMBTU/H		COMBUSTION PRACTICES	0.040	LB/MMBTU	AVERAGE						
*MD-0042	FACILITY	4/8/2014	HEATER	GAS	3	MMB1U/H		COMBUSTION PRACTICES	0.049	LB/MMB1U	AVERAGE	U			0		
			FUEL GAS														
	CHOUTEAU POWER		HEATER														
OK-0129	PLANT	1/23/2009	(H2O BATH)	18.8	MMBTU/H			2.7	LB/H		0			0		
							Source shall only be fired on										
							pipeline quality natural gas.							IN ANY 12			
	SUNBURY						Source shall not be operated in							CONSECUTIVE			
	GENERATION		DEW POINT	-			excess of 8,275 hours in any 12							MONTH			
*PA-0288	LP/SUNBURY SES	4/1/2013	HEATER	Natural Gas	15	MMBTU/H	consecutive month period.		0.085	LB/MMBTU		5.25	T/YR	PERIOD	0		
							,										
I	PH ROBINSON			1													
I	ELECTRIC		foot one	1													
*TX-0691	GENERATING STATION	5/20/2014	fuel gas heater	natural gas	10	MMBtu/hr			0.1	LB/MMBTU		l ₀			l ₀		
· 1A-0091	INDECK WHARTON	3/20/2014	neater	natural gas	10	WIWIDUWIII			0.1	LD/WWBTU		0			l ⁰		
*TV 0004		2/2/2015			,	MA CONTRACTOR		1		I DAM DTU	1 HOUR	l.		1			
*TX-0694	ENERGY CENTER	2/2/2015	heater	natural gas	3	MMBtu/hr			0.1	LB/MMBTU	I HOUK	U		1	U		
I	l		L	1													
I	CPV Valley Energy		Fuel Gas	l		l		L		L	l						
1	Center Wawayanda, NY	1	Heater	Natural Gas	15.02	MMBtu/hr	I	Forced draft low NOx Burner	0.058	lb/MMBtu	1-hr average	I	I	1	1		1

Table D-C-2 Carbon Monoxide (CO) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

RBLCID PATE PROCESS NAME FUEL TIROUGHPUT UNT CONDITION LIMIT 2 MIDWEST FERTILIZER N-0263 COMPANY LLC 3232017 HEATER EL002 LA-0305 METHANOL FACILITY LA-0305 METHANOL FACILITY LA-0307 MAGNOLIA IN FACILITY GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING FOR GRAYLING GRAYLING GRAYLING FOR GRAYLING GRAYLING FOR GRAYLING GRAYLING FOR GRAYLING GRAYLING FOR GRAYLING GRAYLING FOR GRAYLING		BASED UPON 12 MO ROLLING TIME PERIOD	STANDARAD EMISSION LIMIT 0 0 0 0	UNIT	AVG TIME CONDITION
No. 10. No.	0 0 0 3.69 T/YR	MO ROLLING TIME PERIOD	0 0 0		
LAGUE CHARLES LAGUE METHANOL FACILITY LAGUE CHARLES LAGUE	0 0 0 3.69 T/YR	MO ROLLING TIME PERIOD	0	5	
LA 0.905 METHANOL FACILITY 6-90/2016 Preheat Burners Natural gas 23 MM BTU/hr (each) fisch good engineering design and practices and use of clean fisch good engineering design and practices and use of clean fisch good engineering design and practices and use of clean fisch good engineering design and practices and use of clean fisch good engineering design and practices and use of clean fisch good engineering design and practices and use of clean fisch good engineering design and practices and good engineering engineering engineering good engineering engineering good engineering engineering good engineering engineering good engineering good engineering good engineering good engineering good engineering good engineering good engineering good engineering good engineering good enging good engineering good engineering good engineering good engineering good engin		MO ROLLING TIME PERIOD	0)	
LA-0305 METHANOL FACILITY 6-70-2016 Burners Natural Gas 0 Regenerative 1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		MO ROLLING TIME PERIOD	0		
LA-0307 MAGNOLIA LNG FACILITY 3/21/2016 Heaters natural gas 7.37 mm bitu/hr good combustion practices 0		MO ROLLING TIME PERIOD	- 0		
EUFLTOSI in FOTOH (Themal oil system for GRAYLING GRAYLING Themal) Fised PARTICLEBOARD 8:26/2016 Lamination Lines) Autural gas 34 MMBTUH at 10.2 MMBTUH fixed heart input (EUFLTOSI in FGTOH). GRAYLING GRAYLING STATE AND STATE		MO ROLLING TIME PERIOD	- 0		
GRAYLING Thermaly Fused One natural gas fired thermal oil system for thermally fused lamination lines rated Null. SPECIFY MI-0421 PARTICLEBOARD 8:26/2016 Lamination Lines) Natural gas 34 MMBTUH at 10.2 MMBTUH fixel heat input (EUFLTOSI in FGTOH). Good design and operation 0.082 LB/MMBTU AVG TIME EUTOH (In SCAYLING GRAYLING FGTOH)—Thermal Section of the strength		MO ROLLING TIME PERIOD			
MI-0421 PARTICLEBOARD \$26/2016 Lamination Lines Natural gas 34 MMBTUH at 10.2 MMBTUH fixel heat input (EUFLTOSI in FGTOH). Good design and operation 0.082 LB/MMBTU AVG TIME TEST		TIME PERIOD	0		
ELITOH (In GRAYLING MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH MBTUH AVG TIME. AVG TIME.	12.3 T/YR	12-MO ROLLING)	
MI-0421 PARTICLEBOARD 8/26/2016 Dil Hester Natural gas 34 MMBTU/H Type Code 30,590. Good design and operation 0.082 LB/MMBTU AVG TIME. FGFUELITH CIVO	12.3 T/YR	12-MO ROLLING			
FGFUELHTR (Two	12.5 17110	TIME PERIOD			
		TIMETERIOD			
identified as (EUFUELHTR1 & EUFUELHTR2 in flexible group FGFUELHTR). The total					
EUFUELHTRI combined heat input during operation shall not exceed 27 MMBTUH (each) as Ramp; well. The CO22 initi a fee both units one onthinech however the other limits are per HOURLY; EACH					
MI-0423 NDECK NILES, LLC 1/4/2017 EUFUELHTR2) Natural gas 27 MMBTU/H unit. Good combustion practices. 2.22 LB/H UNIT One natural gas-fired thermal oil heater for press and sifter rated at 3.8	0		0)	
GRAYLING MMBTU/hr fiel heat input (EUTOH in FGTOH). Also falls under the RBLC Good design and operation. 0.082 LBAMBTU PROTOCOL WHATES FEED AND 5-9/2017 EUTOH in FGTOH Natural gas 38 MMBTU/H Process Type Code 30.599. 0.082 LBAMBTU BAML SPECIFY	13.71 T/YR	12-MO ROLLING TIME PERIOD	i		
One natural gas-fired thermal oil system for thermally fused lamination lines	13./1 1/1K	TIME PERIOD	0	1	+
rated at 10.2 MMBTU/H fuel heat input (EUFLTOS1 in FGTOH).					
Noie: The throughput capacity, 10.2 MMBTUH; is not a change but instead a TEST		12-MO ROLLING			
MI-0425 PARTICLEBOARD 5:9/2017 [GTOH Natural gas 10.2 MMBTUH original permit. Good design and operation. 0.082 LB/MMBTU SHALL SPECIFY 1.0 1.	3.69 T/YR	TIME PERIOD	0	1	
BELLE RIVER COMBINED Natural gas fired					
MI-0435 CYCLE POWER PLANT 7/16/2018 fixel heater Natural gas 20.8 MMBTU/H A natural gas-fired 20.8 MMBTU/H beat input HP fuel heater. Good combustion controls. 0.77 LB/H HOURLY UP-04/10/10/10/10/10/10/10/10/10/10/10/10/10/	0		0)	+
BELLE RIVER COMBINED Natural gas fired Mu-0435 CYCLE POWER PLANT 7/16/2018 fist better Natural gas 3.8 MMBTU/H A natural gas-fired 3.8 MMBTU/H beat input HP fuel beater. Good combustion controls 0.14 LB/H HOURLY	0		0		
CPV FARTIVEW ENERGY					
CPV FAIRVIEW ENERGY			0		+
	0		0)	+
The auxiliary boiler will provide steam to the steam turbine at startup and at cold starts to warm up the ST rotor. The steam from the auxiliary boiler will not be					
BOILER (1) AND susce to augment the power generation of the combustion surbines or steam surbines. The belief set proposed to operate F60 havely but will be limited by an surbine. The belief set proposed to operate F60 havely but will be limited by an					
*VA-0325 STATION 6/17/2016 [HEATERS (6) NATURAL GAS 188 [MMBTU/HR] annual fined throughput based on a capacity factor of 10%. Clean fixed and good combustion practices 0.035 LBS/MMBTU	6.6 LB/H		0)	
MARSHALLTOWN 3-HOUR					
*IA-0107 GENERATING STATION 4/14/2014 dew point heater natural gas 13.32 mmBu/hr 0.041 LB/MMBTU AVERAGE	0		0)	
MD-0040 CPV ST CHARLES 11/12/2008 HEATER NATURAL GAS 1.7 MMBTU/H FUEL GAS HEATER 0.08 LB/MMBTU	0		0		
USE OF EFFICIENT DESIGN OF THE HEATER, EXCLUSIVE USE					
OF PIPELINE QUALITY NATURAL GAS ONLY, AND 3-HOUR					
WILDCAT POINT DEW POINT SHOUR APPLICATION OF GOOD BLOCK					
*MD-0042 GENERATION FACILITY 4/8/2014 HEATER NATURAL GAS 5 MMBTU/H COMBUSTION PRACTICES 0.083 LB/MMBTU AVERAGE	0		0		
FUEL GAS CHOUTEAU POWER HEATER (1/20					
OK-0129 PLANT 1/23/2009 BATH) 18.8 MMBTU/H 0.39 LB/H	0	n:	0)	
		IN ANY 12 CONSECUTIVE	:		
SUNBURY GENERATION DEW POINT Source shall only be fired on pipeline quality natural gas. Source shall not	2 20 7777	MONTH			
PA-0288 LP/SUNBURY SES 4/1/2013 HEATER Natural Gas 15 MMBTU/H be operated in excess of 8,275 hours in any 12 consecutive month period. 0.037 LB/MMBTU	2.28 T/YR	PERIOD	0		+
PH ROBINSON ELECTRIC					
PH ROBINSON ELECTRIC	0		0		
INDECK WHARTON *TX-0694 ENERGY CENTER 2/2/2015 heater natural gas 3 MMBtu/hr 0.04 LB/MMBTU 1 HOUR	0				
CPV Valley Energy Center	U		0	1	+
Wawayanda, NY Fuel Gas Heater Natural Gas 5.02 MMBtu/hr Good combustion controls. 0.084 lbr/MMBtu 1-hr average					

Table D-C-3 Volatile Organic Compound (VOC) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

							ICONTROL METHOD	IEMISSION		AVG TIME	IEMISSION		AVGTIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL THROUGHPUT	THROUGHPUT UNIT			LIMIT 1	UNIT		LIMIT 2	UNIT		EMISSION LIMIT		CONDITION
RDLCID	riceri i iii.	TERMIT ESSERVEE DATE					Discini IIo.	L.L.111 1	1		121.111.2			E.M.SOIO. (EE.M.)	C.111	COMBITION
*AK-0084	DONLIN GOLD PROJECT	6/20/2017	Boilers and Heaters (natural gas and	Natural Gas and Diesel 29.3	9 MMBtu/hr	Two (2) natural gas and diesel fired 29.29 MMBtu/hr process heaters, one (1) natural gas and diesel fired 20.66 MMBtu/hr boiler, one (1) natural gas and diesel	G1 Gbti Bti	0.001	LB/MMBTU 5 (ULSD)	3-HOUR AVERAGE	0.005	LB/MMBTU 4 (NAT. GAS)	3-HOUR AVERAGE			. !
'AK-0084	DONLIN GOLD PROJECT	6/30/201/	Two (2) Heaters	Diesei 29	y MINIDIU/III	maturai gas and diesei fired 20.00 MiNibili/fir boller, one (1) naturai gas and diesei	Good Combustion Fractices	0.001.	LB/MMBTU	3-HOUR	0.003	LB/MMBTU	3-HOUR	0		
*AK-0084	DONLIN GOLD PROJECT	6/20/2017		Natural Gas 16	5 MMBtu/hr	Two (2) 16.5 MMBtu/hr heaters (natural gas and diesel fired).	Good Combustion Practices	0.001	5 (ULSD)	AVERAGE	0.005	4 (NAT. GAS)	AVERAGE			. !
AK-0064	MIDWEST FERTILIZER	6/30/2017	STARTUP	Naturai Gas 16	3 MINIDIU/III	1 W0 (2) 16.3 MWBtu/iir neaters (naturai gas and diesei iired).	Good Compusion Fractices	0.001.	3 (ULSD)	3 HOUR	0.003	+ (NA1. GA5)	AVERAGE	0		
IN-0263	COMPANY LLC	3/23/2017		NATURAL GAS	0 MMBTU/HR		GOOD COMBUSTION PRACTICES	0.27	8 LB/H	AVERAGE	20	0 H/YR				. !
114-0203	COMPANTELC	3/23/2017	Regenerative	NATORAL GAS	O MINIDIC/IIK		GOOD COMBOSTION I RACTICES	0.576	S LD/II	AVERAGE	20	UII/IK		- 0		
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016		natural gas 7.3	7 mm btu/hr		good combustion practices		0			0		0		. !
211 0307	GRAYLING	3/21/2010	EUTOH (In	Tanta gus		One natural gas fired thermal oil heater for press and sifter rated at 34 MMBTU/H		·	1	TEST		Ÿ	BASED UPON A	v		
MI-0421	PARTICLEBOARD	8/26/2016	FGTOH)Thermal	Natural gas	4 MMBTU/H	fuel heat input (EUTOH in FGTOH). All falls under RBLC Process Type Code		0.005	4 LB/MMBTU	PROTOCOL.	0	8 T/YR	12-MO ROLLING	0		. !
			FGFUELHTR (Two			Two natural gas fired dew point heaters for warming the natural gas fuel				HOURLY: EACH						
MI-0423	INDECK NILES, LLC	1/4/2017		Natural gas	7 MMBTU/H	(EUFUELHTR1 & EUFUELHTR2 in flexible group FGFUELHTR). The total	Good combustion practices.	0.1:	5 LB/H	FUEL HEATER		0		0		. !
	BELLE RIVER COMBINED		EUFUELHTR1:				i i									
*MI-0435	CYCLE POWER PLANT	7/16/2018	Natural gas fired fuel	Natural gas 20	8 MMBTU/H	A natural gas-fired 20.8 MMBTU/H heat input HP fuel heater.	Good combustion controls	0.1	7 LB/H	HOURLY		0		0		
	BELLE RIVER COMBINED		EUFUELHTR2:													
*MI-0435	CYCLE POWER PLANT	7/16/2018	Natural gas fired fuel	Natural gas 3	8 MMBTU/H	A natural gas-fired 3.8 MMBTU/H heat input HP fuel heater.	Good combustion controls.	0.03	3 LB/H	HOURLY		0		0		
																1
MD-0040	CPV ST CHARLES	11/12/2008	HEATER	NATURAL GAS 1.	7 MMBTU/H	FUEL GAS HEATER		0.005	LB/MMBTU		1 .	0		0		. !
							USE OF EFFICIENT DESIGN OF									. !
							THE HEATER, EXCLUSIVE USE									. !
							OF PIPELINE QUALITY									. !
										3-HOUR						. !
							NATURAL GAS ONLY, AND									. !
I	WILDCAT POINT		DEW POINT				APPLICATION OF GOOD			BLOCK						. !
*MD-0042	GENERATION FACILITY	4/8/2014		NATURAL GAS	5 MMBTU/H		COMBUSTION PRACTICES	0.003	5 LB/MMBTU	AVERAGE		D		0		
1			FUEL GAS													
1	CHOUTEAU POWER		HEATER (H2O													. !
OK-0129	PLANT	1/23/2009	BATH)	18.	8 MMBTU/H			0.1	LB/H		1	0		0		
													IN ANY 12			
1						Source shall only be fired on pipeline quality natural gas. Source shall							CONSECUTIVE			. !
1	SUNBURY GENERATION		DEW POINT			not be operated in excess of 8,275 hours in any 12 consecutive month							MONTH			
*PA-0288	LP/SUNBURY SES			Natural Gas	5 MMBTU/H	period.		0.000	6 LB/MMBTU		0.3	4 T/YR	PERIOD	0		
111 0200	CPV Valley Energy Center	4/1/2013	**********	Tallatar Gas	J. MANDI CIL	periou.		0.000	Libinidibio	+	1 0.5		LIGOD			
1	Wawayanda, NY		Fuel Gas Heater	Natural Gas 5.0	2 MMBtu/hr		Good combustion controls.	0.01	1 lb/MMBtu	1-hr average						
	wawayanua, NY		ruci Gas Heater	Naturar Gas 5.0	2 IVIIVIDUU/IIF		Good combustion controls.	0.01	i io/iviiviBtu	1-iii average		1				

Table D-C-4 Particulate Matter (PM) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT															
		ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID FACT	CILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
			Boilers and Heaters	Natural Gas and			Two (2) natural gas and diesel fired 29.29 MMBtu/hr process heaters, one (1)	Clean Fuel and Good Combustion		LB/MMBTU	3-HOUR		LB/MMBTU	3-HOUR			
*AK-0084 DON	NLIN GOLD PROJECT		(natural gas and	Diesel	29.3	9 MMBtu/hr	natural gas and diesel fired 20.66 MMBtu/hr boiler, one (1) natural gas and	Practices	0.0254	(ULSD)	AVERAGE	0.0075	(NAT. GAS)	AVERAGE	0		
			Two (2) Heaters					Clean Fuel and Good Combustion		LB/MMBTU	3-HOUR		LB/MMBTU	3-HOUR			
	NLIN GOLD PROJECT			Natural Gas	16	.5 MMBtu/hr	Two (2) 16.5 MMBtu/hr heaters (natural gas and diesel fired).	Practices	0.0254	(ULSD)	AVERAGE	0.0075	(NAT. GAS)	AVERAGE	0		
	DWEST FERTILIZER		STARTUP														
	MPANY LLC			NATURAL GAS	,	70 MMBTU/HR		GOOD COMBUSTION PRACTICE	0.13	LB/H	3HR AVERAGE	200	H/YR		0		
	AYLING		EUTOH (In				One natural gas fired thermal oil heater for press and sifter rated at 34				TEST			BASED UPON A			
MI-0421 PART	RTICLEBOARD		FGTOH)Thermal	Natural gas		34 MMBTU/H	MMBTU/H fuel heat input (EUTOH in FGTOH). All falls under RBLC Process	Good combustion practices	0.0075	LB/MMBTU	PROTOCOL	1.1	T/YR	12-MO ROLLING	0		
			FGFUELHTR (Two				Two natural gas fired dew point heaters for warming the natural gas fuel				TEST						
	DECK NILES, LLC			Natural gas	:	27 MMBTU/H	(EUFUELHTR1 & EUFUELHTR2 in flexible group FGFUELHTR). The total	Good combustion practices.	0.002	LB/MMBTU	PROTOCOL	0)		0		
	LLE RIVER COMBINED		EUFUELHTR1:														
	CLE POWER PLANT			Natural gas	20	.8 MMBTU/H	A natural gas-fired 20.8 MMBTU/H heat input HP fuel heater.	Low sulfur fuel	0.15	LB/H	HOURLY	0)		0		
	LLE RIVER COMBINED		EUFUELHTR2:														
*MI-0435 CYCI	CLE POWER PLANT	7/16/2018	Natural gas fired	Natural gas	3	.8 MMBTU/H	A natural gas-fired 3.8 MMBTU/H heat input HP fuel heater.	Low sulfur fuel	0.03	LB/H	HOURLY	0)		0		
MD-0040 CPV	V ST CHARLES	11/12/2008	HEATER	NATURAL GAS	1	.7 MMBTU/H	FUEL GAS HEATER		0.007	LB/MMBTU		0)		0		
								EXCLUSIVE USE OF PIPELINE			3-HOUR						
WILL	LDCAT POINT		DEW POINT					OUALITY NATURAL GAS AND			AVERAGE						
	NERATION FACILITY	4/8/2014		NATURAL GAS		5 MMBTU/H		GOOD COMBUSTION PRACTICES	0.0075	LB/MMBTU	BASIS				0		
		4/8/2014	HEATEK	NATUKAL GAS		5 MMB1U/H		GOOD COMBUSTION PRACTICES	0.0073	LB/MMB1U	BASIS		1		0		
	V Valley Energy Center																
Waw	wayanda, NY		Fuel Gas Heater	Natural Gas	5.0	02 MMBtu/hr		Low sulfur fuel.	0.0076	lb/MMBtu	1-hr average						
														IN ANY 12			
														CONSECUTIVE			
SUN	NBURY GENERATION		DEW POINT				Source shall only be fired on pipeline quality natural gas. Source shall not							MONTH			
	SUNBURY SES	4/1/2013	HEATER	Natural Gas		5 MMBTU/H	be operated in excess of 8,275 hours in any 12 consecutive month period.		0.008	LB/MMBTU		0.46	T/YR	PERIOD	0		

Table D-C-5 Particulate Matter less than 10 microns (PM₁₀) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
							Two (2) natural gas and diesel fired 29.29 MMBtu/hr process heaters,										
1							one (1) natural gas and diesel fired 20.66 MMBtu/hr boiler, one (1)										
							natural gas and diesel fired 16 MMBtu/hr heater, one (1) natural gas										
			Boilers and				fired 2 MMBtu/hr SO2 burner, one (1) diesel fired 2 MMBtu/hr SO2										
			Heaters (natural				burner, one hundred and 38 (138) natural gas fired building heaters,										
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	gas and diesel	Natural Gas and Diesel	20.20	MMBtu/hr	seven (7) natural gas fired 2.5 MMBtu/hr air handler heaters, and	Clean Fuel and Good Combustion Practices	0.0354	LB/MMBTU (ULSD)	3-HOUR AVERAGE	0.0075	LB/MMBTU (NAT. GAS)	3-HOUR AVERAGE			
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Two (2) Heaters	Diesei	29.29	iviiviBtu/nr	twenty (20) diesel fired portable heaters.	Practices	0.0254	(ULSD)	AVERAGE	0.0075	(NAT. GAS)	AVERAGE	-		+
			(natural gas and					Clean Fuel and Good Combustion		LB/MMBTU	3-HOUR		LB/MMBTU	3-HOUR			
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	diesel fired)	Natural Gas	16.5	MMBtu/hr	Two (2) 16.5 MMBtu/hr heaters (natural gas and diesel fired).	Practices	0.0254	(ULSD)	AVERAGE	0.0075	(NAT. GAS)	AVERAGE	0		
	MIDWEST FERTILIZER		STARTUP HEATER								3HOUR						T
IN-0263	COMPANY LLC	3/23/2017	EU-002	NATURAL GAS	70	MMBTU/HR		GOOD COMBUSTION PRACTICES	0.522	LB/H	AVERAGE	200	H/YR		0		
								good engineering practices, good									
LA-0305	LAKE CHARLES METHANOL FACILITY	6/20/2016	Gasifier Start-up Preheat Burners	Natural gas	,,	MM BTU/hr (each)		combustion technology, and use of clean fuels		,		١ .	J				
LA-0303	LAKE CHARLES METHANOL	6/30/2016	WSA Preheat	ivaturai gas	- 43	I WIW BTO/III (eacil)		good engineering design and		,			1		-		+
LA-0305	FACILITY	6/30/2016		Natural Gas	0			practices and use of clean fuels					,		0		
			Regenerative														
LA-0307	MAGNOLIA LNG FACILITY	3/21/2016	Heaters	natural gas	7.37	mm btu/hr		good combustion practices	- 0			0)		0		
			EUTOH (In FGTOH)Thermal				One natural gas fired thermal oil heater for press and sifter rated at 34 MMBTU/H fuel heat input (EUTOH in FGTOH). All falls under RBLC				TEST PROTOCOL WILL SPECIFY			12-MO ROLLING			
MI-0421	GRAYLING PARTICLEBOARD	8/26/2016		Natural gas	34	ммвти/н	Process Type Code 30.590.	Good combustion practices.	0.0005	LB/MMBTU	AVG TIME	0.08	T/YR	TIME PERIOD			
		0,10,2010										1	,,				1
1			FGFUELHTR (Two														
			fuel pre-heaters				Two natural gas fired dew point heaters for warming the natural gas										
			identified as				fuel (EUFUELHTR1 & EUFUELHTR2 in flexible group FGFUELHTR). The										
			EUFUELHTR1 &:				total combined heat input during operation shall not exceed 27				LIQUIDIN FACIL						
MI-0423	INDECK NILES, LLC	1/4/2017	EUFUELHTR2)	Natural gas	27	ммвти/н	MMBTU/H (each) as well. The CO2e limit is for both units combined; however the other limits are per unit.	Good combustion practices.	0.2	LB/H	HOURLY; EACH FUEL HEATER	١ ,					
1411 0-425	INDECK WILLS, LLC	1/4/201/	EUFUELHTR1:	reactar ar gas		ininibi o/ii	nowever the other mind are per unit.	Good compastion practices.	0.2	120/11	T OLE TIESTICAL		1				+
	BELLE RIVER COMBINED		Natural gas fired														
*MI-0435	CYCLE POWER PLANT	7/16/2018	fuel heater	Natural gas	20.8	MMBTU/H	A natural gas-fired 20.8 MMBTU/H heat input HP fuel heater.	Low sulfur fuel	0.15	LB/H	HOURLY	0)		0		
			EUFUELHTR2:														
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/46/2040	Natural gas fired			ммвти/н	A set selection for all 2 CAMADTIA (Ubest Section 100 for best Section 1	Low sulfur fuel		B LB/H	HOURLY						
*IVII-0435	CYCLE POWER PLANT	//16/2018	fuel heater	Natural gas	5.8	WIWIBTU/H	A natural gas-fired 3.8 MMBTU/H heat input HP fuel heater.	Low sulfur fuel	0.03	в цв/н	HOURLY	- ·	1		-		+
	MARSHALLTOWN										3-HOUR						
*IA-0107	GENERATING STATION	4/14/2014	dew point heater	natural gas	13.32	mmBtu/hr		low sulfur fuel	0.008	LB/MMBTU	AVERAGE	0)		0		
MD-0040	CPV ST CHARLES	11/12/2008	HEATER	NATURAL GAS	1.7	MMBTU/H	FUEL GAS HEATER		0.007	LB/MMBTU	1	0	1		0		
								EVOLUCINE LICE OF DIDE, 2.77			3-HOUR						
	WILDCAT POINT		DEW POINT					EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND			3-HOUR BLOCK						
*MD-0042	GENERATION FACILITY	4/8/2014	HEATER	NATURAL GAS	5	MMBTU/H		GOOD COMBUSTION PRACTICES	0.0075	LB/MMBTU	AVERAGE	0			0		
			FUEL GAS														
	CHOUTEAU POWER		HEATER (H2O					I									
OK-0129	PLANT	1/23/2009	BATH)		18.8	MMBTU/H		1	0.1	LB/H		0			0		
	CPV Valley Energy Center Wawayanda, NY		Fuel Gas Heater	Natural Gas	5.03	MMBtu/hr		Low sulfur fuel.	0.0074	lb/MMBtu	1-hr average						
	mawayanua, in i	I	i uci Gas ricater	radial Gas	3.02	IVIIVIDIWIII		Low suitti tuci.	0.0076	, io minibiu	1-ili average		L		I	l	

Table D-C-6 Particulate Matter less than 2.5 microns (PM_{2.5}) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		AVG TIME	EMISSION LIMIT		AVG TIME	STANDARAD	AVGTIME
RBLCID			PROCESS NAME		THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	1	UNIT	CONDITION		UNIT		EMISSION LIMIT	CONDITION
			Boilers and Heaters	Natural Gas and			Two (2) natural gas and diesel fired 29.29 MMBtu/hr	Clean Fuel and Good Combustion	-			-	LB/MMBTU (NAT.			
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	(natural gas and	Diesel	29.29	MMBtu/hr	process heaters, one (1) natural gas and diesel fired	Practices	0.0254	I RAMMETILATI SE	3-HOUR AVERAGE	0.0075		3-HOUR AVERAGE	0	
7110 0007	DOILEN GOLD I KOSLOT	0.30/2017	Two (2) Heaters	Diesei	27.27			Clean Fuel and Good Combustion	0.025	LD/MMDTC (CEDE) J HOUR AVERTOE	0.0075	LB/MMBTU (NAT.	J HOUR AVERGEOR		
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	(natural gas and	Natural Gas	16.5	MMBtu/hr	fired)	Practices	0.0254	LB/MMBTU/ULSE	3-HOUR AVERAGE	0.0075		3-HOUR AVERAGE	0	
	MIDWEST FERTILIZER		STARTUP								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
IN-0263	COMPANY LLC	3/23/2017	HEATER EU-002	NATURAL GAS	70	MMBTU/HR		GOOD COMBUSTION PRACTICES	0.522	LB/H	3 HOUR AVERAGE	200	H/YR		0	
	LAKE CHARLES		Gasifier Start-up					good engineering practices, good								
	METHANOL FACILITY	6/30/2016	Preheat Burners	Natural gas	23	MM BTU/hr (each)		combustion technology, and use of clean	(0			0	1
	LAKE CHARLES		WSA Preheat					good engineering design and practices and								
LA-0305	METHANOL FACILITY	6/30/2016		Natural Gas	0			use of clean fuels	(0			0	
			Regenerative													
	MAGNOLIA LNG FACILITY	3/21/2016		natural gas	7.37	mm btu/hr		good combustion practices	(0			0	
	GRAYLING		EUTOH (In				One natural gas fired thermal oil heater for press and				TEST PROTOCOL			BASED UPON A 12-		
MI-0421	PARTICLEBOARD	8/26/2016	FGTOH)Thermal	Natural gas	34	MMBTU/H		Good combustion practices.	0.0004	LB/MMBTU	WILL SPECIFY	0.06	T/YR	MO ROLLING	0	
N (1 0 422	INDECK NILES, LLC	1/4/2015	FGFUELHTR (Two fuel pre-heaters	Natural gas	27	MMBTU/H	Two natural gas fired dew point heaters for warming the natural gas fuel (EUFUELHTR1 & EUFUELHTR2 in	Good combustion practices.		LB/H	HOURLY; EACH FUEL HEATER					
	BELLE RIVER COMBINED	1/4/2017	EUFUELHTR1:	Naturai gas	21	MMB1U/H	A natural gas-fired 20.8 MMBTU/H heat input HP fuel	Good combustion practices.	0.2	LB/H	FUEL HEATEK	0			0	
	CYCLE POWER PLANT	7/16/2016	Natural gas fired	Natural gas	20.6	MMBTU/H	A natural gas-fired 20.8 MMB1 U/H fleat input HP fuel	Low sulfur fuel	0.14	LB/H	HOURLY					
	BELLE RIVER COMBINED	//10/2016	EUFUELHTR2:	ivaturar gas	20.0	WIND COTT	A natural gas-fired 3.8 MMBTU/H heat input HP fuel	Low suitui iuci	0.1.	LD/II	HOCKET					
	CYCLE POWER PLANT	7/16/2018	Natural gas fired	Natural gas	3.9	MMBTU/H	heater	Low sulfur fuel	0.03	LB/H	HOURLY	0			0	
MI 0133	CTCLLTOWERT LAWY	//10/2010	Truturur gus meu	Truturur gus	5.0	inimbi con	neute.	LOW Sulfur fact	0.0.	LDIII	HOURET				<u> </u>	
	MARSHALLTOWN										3-HOUR					1
		4/14/2014	dew point heater		12.22	mmBtu/hr			0.000	LB/MMBTU	AVERAGE					
*IA-0107	GENERATING STATION	4/14/2014	dew point neater	naturai gas	13.32	mmisturnr			0.008	LB/MMB1U	AVERAGE	0			0	
															_	
MD-0040	CPV ST CHARLES	11/12/2008	HEATER	NATURAL GAS	1.7	MMBTU/H	FUEL GAS HEATER		0.007	LB/MMBTU		0			0	
																1
								EXCLUSIVE USE OF PIPELINE								1
	WILDCAT POINT		DEW POINT					QUALITY NATURAL GAS AND			3-HOUR BLOCK					1
*MD-0042	GENERATION FACILITY	4/8/2014	HEATER	NATURAL GAS	5	MMBTU/H		GOOD COMBUSTION PRACTICES	0.0075	LB/MMBTU	AVERAGE	0			0	
1	PH ROBINSON ELECTRIC					I										1
		5/20/2014	fuel gas heater	natural gas	10	MMBtu/hr				J						
		3/20/2014	iuci gas neater	naturai gas	18	INTINIDIM III,			,	1		0			0	
	INDECK WHARTON	2.2.2015	l	1	1 .	lane.										
		2/2/2015	heater	natural gas	3	MMBtu/hr			('		0			0	
	CPV Valley Energy Center			l		l				.	1					
	Wawayanda, NY		Fuel Gas Heater	Natural Gas	5.02	MMBtu/hr		Low sulfur fuel.	0.0076	lb/MMBtu	1-hr average					

Table D-C-7 Sulfur Dioxide (SO₂) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT															
RBLCID		ISSUANCE DATE E	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT		CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT		EMISSION LIMIT 2		AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KBLCID		DATE	I KOCESS NAME	TRIMARTICEE	THROUGHI UT	UMI		DESCRIPTION		1 -	COMBITTOM	LIMIT 2	CMI	COMBITION	EMISSION EIMIT	UMII	COMBITION
	OKEECHOBEE CLEAN ENERGY CENTER		Two natural gas heaters			MMBtu/hr	Fueled only with gas. May operate one	Use of low-sulfur fuel	_	GR. S/100 SCF							
FL-0356	DANIA BEACH ENERGY	3/9/2016 1	i wo naturai gas neaters	Natural gas	10	MMBtu/nr	heater at a time.	Use of low-sulfur fuel		GAS GRAINS S / 100		0			0		
*FL-0363	CENTER	12/4/2017 7	Two natural gas heaters	Natural gas	9.0	MMBtu/hr		Clean fuel	,	SCF							
12-0303	LAKE CHARLES		Gasifier Start-up Preheat	ivaturar gas	7.7	IVIIVIIDIU/III		good engineering practices, good		JC1							+
LA-0305	METHANOL FACILITY	6/30/2016 E		Natural gas	22	MM BTU/hr (each)		combustion technology, and use of clean	0								
LA-0303	LAKE CHARLES	0/30/2010 1	Dutikas	ivaturar gas	- 23	WINT DT C/III (Cacil)		good engineering design and practices and	- 0						- 0		+
LA-0305	METHANOL FACILITY	6/30/2016 3	WSA Preheat Burners	Natural Gas	0			use of clean fuels	0			0			0		
			FGFUELHTR (Two fuel pre-					Good combustion practices and the use of			BASED UPON						_
MI-0423	INDECK NILES, LLC		heaters identified as	Natural gas	27	MMBTU/H		pipeline quality natural gas.		GR/MMSCF	FUEL RECEIPT	0			0		
MD-0040	CPV ST CHARLES	11/12/2008 H	HEATER	NATURAL GAS	1.7	MMBTU/H	FUEL GAS HEATER		0		SEE NOTE	0			0		
*MD-0042	WILDCAT POINT GENERATION FACILITY CHOUTEAU POWER		DEW POINT HEATER FUEL GAS HEATER	NATURAL GAS	5	ММВТИ/Н		USE OF EFFICIENT DESIGN OF THE HEATER, EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS ONLY, AND APPLICATION OF GOOD COMBUSTION PRACTICES	0.0006	LB/MMBTU	3-HOUR BLOCK AVERAGE	0			0		
OK-0129	PLANT		(H2O BATH)		18.8	MMBTU/H		LOW SULFUR FUEL	0.01	LB/H		0			0		
*PA-0288	SUNBURY GENERATION LP/SUNBURY SES		DEW POINT HEATER	Natural Gas	15	ммвти/н	Source shall only be fired on pipeline quality natural gas. Source shall not be operated in excess of 8,275 hours in any 12 consecutive month period.		0.003	LB/MMBTU		0.17		IN ANY 12 CONSECUTIVE MONTH PERIOD	0		
	CPV Valley Energy Center Wawayanda, NY		Fuel Gas Heater	Natural Gas	5.02	MMBtu/hr		Low sulfur fuel.	0.0022	lb/MMBtu	1-hr average						

Table D-C-8 Sulfuric Acid Mist (H₂SO₄) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

			1	1				1						1			
RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL		THROUGHPUT UNIT		CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUFUELHTR1: Natural gas fired fuel heater	Natural gas	20.8	MMBTU/H	A natural gas-fired 20.8 MMBTU/H heat input HP fuel heater.	Low sulfur fuel		0.34 GR S/100 SCF	FUEL SUPPLIER RECORDS		0		0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUFUELHTR2: Natural gas fired fuel heater	Natural gas	3.8	MMBTU/H	A natural gas-fired 3.8 MMBTU/H heat input HP fuel heater.	Low sulfur fuel		0.34 GR S/100 SCF	FUEL SUPPLIER RECORDS		D		0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	AUXILIARY BOILER (1) AND FUEL GAS HEATERS (6)	NATURAL GAS	185	MMBTU/HR	The auxiliary boiler will provide steam to the steam turbine at startup and at cold starts to warm up the ST rote. The steam from the auxiliary boiler will not be used to augment the power generation of the combastion turbines or steam turbine. The boiler is proposed to operate ST60 hrsyly but will be limited by an annual fuel throughput based on a capacity factor of 10%.		0.0	0001 LB/MMBTU			0		0		
*MD-0042		4/8/2014	DEW POINT HEATER	NATURAL GAS	5	MMBTU/H		USE OF EFFICIENT DESIGN OF THE HEATER, EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS ONLY, AND APPLICATION OF GOOD COMBUSTION PRACTICES	0.0005	LB/MMBTU	3-HOUR BLOCK AVERAGE	0			0		
	CPV Valley Energy Center Wawayanda, NY		Fuel Gas Heater	Natural Gas	5.02	MMBtu/hr		Low sulfur fuel.	0.0002	lb/MMBtu	1-hr average						

Table D-C-9 Greenhouse Gas (GHG) RBLC Search - Dew Point Heater Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE			THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME		PROCESS NAME	PRIMARY FUEL		PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	1	 				Two (2) natural gas and diesel fired 29.29 MMBtu/hr process heaters, one (1) natural			i e	1	†			1		
						gas and diesel fired 20.66 MMBtu/hr boiler, one (1) natural gas and diesel fired 16										
						MMBtu/hr heater, one (1) natural gas fired 2 MMBtu/hr SO2 burner, one (1) diesel										
			Boilers and Heaters			fired 2 MMBtu/hr SO2 burner, one hundred and 38 (138) natural gas fired building										
			(natural gas and	Natural Gas and		heaters, seven (7) natural gas fired 2.5 MMBtu/hr air handler heaters, and twenty (20)										
*AK-0084	DONLIN GOLD PROJECT	ACT		Diesel	29.29 MMBtu/hr	diesel fired portable heaters.	Good Combustion Practices	17634	7 TPY	YEARLY		0		(
			Two (2) Heaters													
*AK-0084	DONLIN GOLD PROJECT	06/30/2017 &nbsn:ACT	(natural gas and	Natural Gas	16.5 MMBtu/hr	T (0.1451040) 4.1	Good Combustion Practices	17634	TDV	YEARLY						
*AK-0084	DONLIN GOLD PROJECT	AC1	diesel fired)	Natural Gas	16.5 MMBtu/hr	Two (2) 16.5 MMBtu/hr heaters (natural gas and diesel fired).	GOOD COMBUSTION	17634	/ IPY	YEARLY		0		-		
							PRACTICES AND THE USE OF									
	MIDWEST FERTILIZER	03/23/2017	STARTUP HEATER				INLET AIR CONTROL SENSORS			3 HOUR						
IN-0263	COMPANY LLC	ACT		NATURAL GAS	70 MMBTU/HR		THAT LIMIT EXCESS AIR		I B/H	AVERAGE	,	00 H/YR				
11,0203	LAKE CHARLES		Gasifier Start-up	TOTAL COLD	70 Mind Colle		good equipment design and good	010	LLOIL	AVEIGIGE		00 II IK		`		
LA-0305	METHANOL FACILITY		Preheat Burners	Natural gas	23 MM BTU/hr (each)		combustion practices	1 (o		1	0			1	
	LAKE CHARLES	06/30/2016	WSA Preheat		(2000)		good equipment design and good									
LA-0305	METHANOL FACILITY	ACT	Burners	Natural Gas	0		combustion practices	(0			0		(
							good									
	MAGNOLIA LNG	03/21/2016					combustion/operating/maintenance									
LA-0307	FACILITY	ACT	Regenerative Heaters	natural gas	7.37 mm btu/hr		practices and fueled by natural gas	-)			0		(
	GRAYLING	00/26/2016	EUTOH (In FGTOH)-Thermal			0 . 1 . 6 . 14 . 1 . 1				BASED UPON A 12-MO ROLLING						
MI-0421	PARTICLEBOARD	ACT		Natural gas	34 MMBTU/H	One natural gas fired thermal oil heater for press and sifter rated at 34 MMBTU/H fuel heat input (EUTOH in FGTOH). All falls under RBLC Process Type Code 30.590.	Good combustion and maintenance practices, natural gas only.	1743	8 T/YR	TIME PERIOD	1					
MI-0421	PARTICLEBOARD	&nospAC1	FGFUELHTR (Two	Naturai gas	34 MMB1U/H	neat input (EUTOH in FGTOH). All falls under RBLC Process Type Code 30.590.	practices, natural gas only.	1/43	S 1/YR	TIME PERIOD		0				
			fuel pre-heaters													
			identified as			Two natural gas fired dew point heaters for warming the natural gas fuel				12-MO ROLLING	;					
			EUFUELHTR1			(EUFUELHTR1 & EUFUELHTR2 in flexible group FGFUELHTR). The total	Energy efficiency measures and the			TIME PERIOD:						
		01/04/2017	&			combined heat input during operation shall not exceed 27 MMBTU/H (each) as well.	use of a low carbon fuel (pipeline			COMBINED						
MI-0423	INDECK NILES, LLC	ACT	EUFUELHTR2)	Natural gas	27 MMBTU/H	The CO2e limit is for both units combined; however the other limits are per unit.	quality natural gas).	1384	8 T/YR	LIMI		0		(
			EUFUELHTR1:													
	BELLE RIVER COMBINED		Natural gas fired fuel							12-MO ROLLING	i					
*MI-0435	CYCLE POWER PLANT	ACT		Natural gas	20.8 MMBTU/H	A natural gas-fired 20.8 MMBTU/H heat input HP fuel heater.	Natural gas fuel	6310	T/YR	TIME PERIOD		0		(
			EUFUELHTR2:							12-MONTH						
*MI-0435	BELLE RIVER COMBINED	07/16/2018 :ACT	Natural gas fired fuel				L			ROLLING TIME PERIOD						
*MI-0435	CYCLE POWER PLANT	&nospAC1	neater	Natural gas	3.8 MMBTU/H	A natural gas-fired 3.8 MMBTU/H heat input HP fuel heater. The auxiliary boiler will provide steam to the steam turbine at startup and at cold starts	Natural gas fuel	0310	T/YR	PERIOD	_	0				
			AUXILIARY			to warm up the ST rotor. The steam from the auxiliary boiler will not be used to										
			BOILER (1) AND			augment the power generation of the combustion turbines or steam turbine. The boiler									1	
	GREENSVILLE POWER	06/17/2016	FUEL GAS			is proposed to operate 8760 hrs/yr but will be limited by an annual fuel throughput	Natural gas and fuel and high								1	
*VA-0325	STATION		HEATERS (6)	NATURAL GAS	185 MMBTU/HR	based on a capacity factor of 10%.	efficiency design and operation.	117.	LB/MMBTU			0			1	
										12-MONTH						
	MARSHALLTOWN									ROLLING					1	
*IA-0107	GENERATING STATION	4/14/2014	dew point heater	natural gas	13.32 mmBtu/hr			686	T/YR	TOTAL	1	0			1	
210107		2014	point neuter		13.32 11111310111		1	000		12-MONTH	1	1		1		
	MARSHALLTOWN							1		ROLLING	1			1	1	1
		401400014	[,		12.22				- mare					1	1	
*IA-0107	GENERATING STATION	4/14/2014	dew point heater	naturai gas	13.32 mmBtu/hr			686	T/YR	TOTAL		0		-		
										12-MONTH					1	
	ECTOR COUNTY								1 .	ROLLING					1	
*TX-0758	ENERGY CENTER	8/1/2014	Dew-Point Heater	Natural Gas	9 MMBtu/hr			263	I T/YR	TOTAL		0			1	

ì		1	1						1		1	1					
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			Black Start and Emergency														
			Internal														
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Cumbustion Engines	Diesel	1500	kWe	Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency diesel	Good Combustion Practices	١,	G/KW-HR	3-HOUR AVERAGE	1 .	0				
7110 0004		030/2017	EMERGENCY	Dieses	1500	A TO	Benefit (1)	Cood Companion Fractices	1	GACH IIIC	TYLKIGL						
	MIDWEST FERTILIZER		GENERATORS (EU014A AND	DISTILLATE						G/HP-H	3 HOUR						
IN-0263	COMPANY LLC	3/23/2017	EU-014B)	OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	4.42	EACH	AVERAGE	50	H/YR EACH		(
	HOLBROOK		Emergency					Good equipment design, proper combustion techniques, use of low sulfur									
	COMPRESSOR		Generators No. 1					fuel, and compliance with 40 CFR 60			HOURLY			ANNUAL			
LA-0292	STATION LAKE CHARLES	1/22/2016	& No. 2	Diesel	1341	HP		Subpart IIII	14.10	LB/HR	MAXIMUM	0.7	1 TPY	MAXIMUM	4.8	G/BHP-HR	
	METHANOL		Diesel Engines														
LA-0305	FACILITY	6/30/2016	(Emergency)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	(-	0		- 0		
			DEG1-13 -														
	ST. JAMES		Diesel Fired Emergency														
	METHANOL		Generator Engine														
*LA-0312	PLANT	6/30/2017	(EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII Compliance with NESHAP 40 CFR 63	19.23	LB/HR		1	0		(
			SCPS					Subpart ZZZZ and NSPS 40 CFR 60									
	ST. CHARLES		Emergency					Subpart IIII, and good combustion			HOUBLY			AND THAT			
LA-0313	POWER STATION	8/31/2016	Diesel Generator	Diesel	2584	HP		practices (use of ultra-low sulfur diesel fuel).	27.34	LB/H	HOURLY MAXIMUM	6.8	4 T/YR	ANNUAL MAXIMUM	4.8	G/BHP-HR	
			amargar														
	CAMERON LNG		emergency generator engines	,													
LA-0316	FACILITY METHANEX -	2/17/2017	(6 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII	-			-	0		(
	GEISMAR		Emergency				I-GDE-1201, II-GDE-1201 = 2346 hp										
	METHANOL		Generator				I-GDE-1202 = 755 hp	complying with 40 CFR 60 Subpart IIII	l .			I .			l .		
LA-0317	PLANT	12/22/2016	Engines (4 units)	Diesel	- 0)	I-GDE-1203 = 1193 hp	and 40 CFR 63 Subpart ZZZZ	+ ()		+	0		+		
			Emergency								TEST						
	GRAYLING		Diesel Generator Engine								PROTOCOL						
	PARTICLEBOAR		(EUEMRGRICE						l		WILL SPECIFY				1		
MI-0421	D	8/26/2016	in FGRICE) EUEMENGINE	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE). a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured	Certified engines, limited operating hours.	. 22.0	LB/H	AVG TIME TEST	<u> </u>	0		1		
			(Diesel fuel				in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except				PROTOCOL						
MI-0423	INDECK NILES,	1/4/2017	emergency engine)	Diesel Fuel	22.68	MMBTU/H	during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices and meeting NSPS IIII requirements.	6.5	G/KW-H	WILL SPECIFY AVG TIME	1 .	0				
			EUFPENGINE (Emergency				A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an				TEST PROTOCOL						
	INDECK NILES,		enginediesel	L			emergency (EUFPENGINE). Restricted to 1 hour/day, except during emergency conditions and		l .		WILL SPECIFY				1		
MI-0423	LLC	1/4/2017	fire pump) EUEMRGRICE1	Diesel	1.66	MMBTU/H	stack testing, and 100 hours/year on a 12-month rolling time period basis.	NSPS Subpart IIII requirements.	-	G/BHP-H	AVG TIME	<u> </u>	0		1		
			in FGRICE														
	GRAYLING PARTICLEBOAR		(Emergency diesel generator								TEST PROTOCOL						
MI-0425	D	5/9/2017	engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Certified engines, limited operating hours.	21.3	LB/H	SHALL SPECIFY	1	0		(
			EUEMRGRICE2	2													
	CD AND DIC		in FGRICE								TECT						
	GRAYLING PARTICLEBOAR		(Emergency Diesel Generator								TEST PROTOCOL						
MI-0425	D	5/9/2017	Engine) EUEMENGINE	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	Certified engines, limited operating hours	4.4	LB/H	SHALL SPECIFY	1	0		1		
	MEC NORTH,		(North Plant):				A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model year of 2011 or	r									
*MI 0422	LLC AND MEC	6/29/2018	Emergency	Dissel	,	III	later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with	Good combustion practices and meeting		G/KW-H	HOURLY						
*MI-0433	SOUTH LLC	6/29/2018	EUEMENGINE	Diesei	1341	In!	Tier IV emission standards. Equipped with a diesel particulate filter.	NSPS Subpart IIII requirements.	6.4	U/KW-H	HOUKLY	<u> </u>		1	+ '		
	MEC NORTH, LLC AND MEC		(South Plant):				A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with	Good combustion practices and meeting									
*MI-0433	SOUTH LLC	6/29/2018	Emergency Engine	Diesel	1341	HP	Tier IV emission standards. Equipped with a diesel particulate filter.	NSPS IIII requirements.	6.4	G/KW-H	HOURLY	1 .	0				
			EULIFESAFET YENG - One														
	FLAT ROCK		diesel-fueled				ENTERCAPETATION OF AN IN THE PROPERTY.				HOLDIA						
*MI-0434	ASSEMBLY PLANT	3/22/2018	emergency engine/generator	Diesel	500	KW	EULIFESAFETYENG - One (1) diesel-fueled emergency engine/generator rated at 500 KW. No add-on control.	Good combustion practices.		G/KW-H	HOURLY; NMHC+NOX	8.4	7 LB/H	HOURLY; NOX			
	BELLE RIVER		EUEMENGINE:	1											T		
	COMBINED CYCLE POWER		EUEMENGINE: Emergency				A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to										
*MI-0435	PLANT	7/16/2018	engine	Diesel	2	MW	NSPS IIII.	State of the art combustion design.	6.4	G/KW-H	HOURLY		0	1			
			Emergency Generator -														
WV-0027	INWOOD	9/15/2017	ESDG14	ULSD	900	bhp	Used to supply power to the facility in the event of power loss	Engine Design	4.77	G/HP-HR	-	1	0		- 0		
	INTERNATIONA		Caterpillar 3215C Black														
	L STATION		Start Generator								INSTANTANEOU	J					
AK-0071	POWER PLANT	12/20/2010	[(1)	ULSD	1500	KW-e		Turbocharger and Aftercooler	1 6.4	G/KW-H	IS	1	DI	1	1 (1	

i 																	
	FACILITY	PERMIT ISSUANCE	PROCESS	PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID		DATE	NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
									 	I		1					
								Black Start diesel fired engine EU 13 shal									i
								be equipped with turbo charging and after	1								i
								cooling. The turbo charger reduces NOx									i
								emissions by boosting the pressure and temperature of the air entering the engine									ĺ
								allowing more fuel to be added to increase									i
	INTERNATIONA							power output. This translates into higher	1								i
	L STATION							combustion efficiency and reduced									i
AK-0073	POWER PLANT	12/20/2010	Fuel Combustion	Diesel	150	0 kW-e	EU 13 Black Start Engine	emissions.	6.4	G/KW-H			0		0		
	POINT																1
	THOMSON		0 1 6 6														i
AK-0076	PRODUCTION FACILITY	8/20/2012	Combustion of Diesel by ICEs	ULSD	175	kW	Diesel-fired generators		6.0	G/KW-H			ام				1
AK-0070	POINT	8202012	Dieser by ICEs	ULSD	175	J KW	Diesci-incu generators		0.5	G/KW-II			4		†		
	THOMSON																, ,
	PRODUCTION		Emergency	Ultra Low Sulfur													, ,
*AK-0082	FACILITY	1/23/2015	Camp Generators	Diesel	269:	5 hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		4.8	G/HP-H			0		0		
	THOMSON																, ,
	PRODUCTION		Airstrip	Ultra Low Sulfur													1
*AK-0082	FACILITY	1/23/2015	Generator Engine		49	0 hp	One 490 hp Airstrip Generator Engine		4.8	G/HP-H			0		0		1
	POINT																1
	THOMSON		Bulk Tank														1
	PRODUCTION		Generator	Ultra Low Sulfur	89		THE THE STATE OF T										, ,
*AK-0082	FACILITY HILLABEE	1/23/2015	Engines	Diesel	89	l hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		4.8	G/HP-H			0		- 0		
	ENERGY		EMERGENCY														, ,
AL-0251	CENTER	9/24/2008	GENERATOR	DIESEL	60	0 EKW		GOOD COMBUSTION PRACTICES					0		0		, ,
	NUCOR STEEL		DIESEL FIRED														
	TUSCALOOSA,		EMERGENCY														, ,
*AL-0301	INC. ARIZONA	7/22/2014	GENERATOR	DIESEL	80) HP			0.015	LB/HP-H			0	-	- 0		
	CLEAN FUELS		EMEDGENCY	NO. 2 DIESEL													NOT
AZ-0046	YUMA	4/14/2005	GENERATOR		10.9	MMBTU/H	EQUIPMENT IDENTIFIED BY ID # S-29100		6.4	G/KW-H			0				AVAILABLE
	VICTORVILLE 2						2,100										
	HYBRID POWER		EMERGENCY					OPERATIONAL RESTRICTION OF 50									, ,
CA-1191	PROJECT	3/11/2010	ENGINE	DIESEL	200	KW	2000 KW (2,683 hp) engine	HR/YR	(G/KW-H		4.	5 G/HP-H		0		
	PALMDALE HYBRID POWER		EMERGENCY														, ,
CA-1212	PROJECT	10/18/2011	IC ENGINE	DIESEL	268	HP	UNIT IS 2000 KW.		6.4	G/KW-H	3-HR AVG	4	8 G/HP-H	3-HR AVG			, ,
	MOUNTAINVIE		EMERGENCY														
	W POWER		FIRE IC														, ,
CA-1213	COMPANY LLC	4/21/2006	ENGINE	DIESEL	37:	5 BHP			(0		0		
	MOUNTAINVIE W POWER		EMERGENCY POWER IC														, ,
CA-1213	COMPANY LLC	4/21/2006	ENGINE	DIESEL	215	5 BHP							0				, ,
	SAN DIEGO		ICE:Emergency-														·
	INTERNATIONA		Compression														, ,
*CA-1220	L AIRPORT	10/3/2011		diesel	188	1 BHP	Mitsubishi S12R-Y2PTAW-1	Tier 2 certified and 50 hr/y M&T limit	3.9	G/HP-H			0		0		
			ICE:Emergency-					Tier 2 certified and 50 hr/yr for M&T									, ,
*CA-1221	PACIFIC BELL	12/5/2011	Compression	diesel	363-	4 bbp		limit	3.4	G/HP-H			٥				1
CHILLI		12/3/2011	I I I I I I I I I I I I I I I I I I I	uicici	303	, out		mint		G-111 11			1		1		
	SHADY HILLS		2.5 MW					PURCHASE MODEL IS AT LEAST AS	;								1
	GENERATING			ULTRA LOW S				STRINGENT AS THE BACT VALUES,	,		3 ONE HOUR						i
FL-0310	STATION	1/12/2009	GENERATOR	OIL	2.:	5 MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR Two emergency generators, each rated at 2,000 kW, will be installed to provide backup	UNDER EPA CERTIFICATION.	6.5	G/HP-H	TEST		0		- 0		-
			1			1	electrical power in the event of a power outage at the SRF facility. The engines will fire ULSD		1				1	1		[]	i
	SWEET		1			1	fuel oil or propane and each will be limited to 500 hours per year of operation during		1				1	1		[]	i
	SORGHUM-TO-		1				emergencies. Each unit will be operated no more than 100 hours per year for testing and		1		1	1		1			Í
	ETHANOL		Emergency			1	maintenance purposes per 40 CFR 60, Subpart IIII. Each engine will be designed to meet		1				1	1			i
FL-0322	ADVANCED BIOREFINERY	12020010	Generators, Two 2682 HP EA	ULSD] .		USEPA's emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or		1	G/KW-H			ا	1			i
FL-0322	ANADARKO -	12/23/2010	2002 HP EA	OLSD	 		rater.		6.4	G/KW-H	 	 	4	 	+ °		
	PHEONIX		Emergency			1		Limited use of 24 hours/week and	1				1	1			i
FL-0327	PROSPECT	6/13/2011		Diesel		0	WÃ□rtsilÃ□ 6R32LNE	recordkeeping of operation.	9.4	T/YR			0		0		
	ENI - HOLY																
	CROSS DRILLING	1	_r		1			Use of good combustion practices, based	1		12 MONITH	1	1	1	1	[]	í
*FL-0328	DRILLING PROJECT	10/27/2011	Emergency	Discal		НР	MAN D-2842 LE model engine	on the current manufacturer's specifications for this engine	1	T/YR	12-MONTH ROLLING	12.5	1 G/HP-H	1	"	[]	i '
12-0328	. ROJECI	10/2 //2011	Lugue	L-TCSCI	381			specifications for this clighte	0.4	./ I K	KOLLING	12.3	- Grin-Fi	<u> </u>	1		
			1				One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup		1		1	1		1			i '
	HIGHLANDS		1				electrical power in the event of a power outage at the HEF facility. The generator will fire		1		1	1		1			i '
	BIOREFINERY AND		2000 KW				ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation during		1		1	1		1			i '
	COGENERATIO		Emergency			1	emergencies. The unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US		1				1	1			i
FL-0332	N PLANT	9/23/2011	Emergency Equipment		1 .	0	EPA's emission standards listed in 40 CFR Part 60 Subpart IIII. In engine will be designed to meet US	See Pollutant Notes.	6.4	G/KW-H	1		ol	1			Í
		7/23/2011	,,		1				- 0.5		1	1					
	HIGHLANDS		1			1	One 600 hp diesel fire pump engine will be installed to provide firewater during power outages.		1				1	1			i '
	BIOREFINERY	1	COO TIP		1		This unit will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of		1		1	1	1	1	1	[]	i '
1	AND COGENERATIO	1	600 HP	Ultra-Low Sulfur	.]		operation. This unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US		1		1	1	1	1	1	[]	i '
FL-0332	N PLANT	9/23/2011	Emergency Equipment	Oil	1 .	0	EPA's emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2009 or later	See Pollutant Notes	-	G/HP-H	1		ol	1		[]	, '
	,					-1							-				

		PERMIT								1	1			1			
	FACILITY	ISSUANCE	PROCESS	PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	NAME	DATE	NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
								Use of good combustion practices based									
								on the current manufacturer's									
			Emergency					specifications for these engines, use of									
	SAKE PROSPECT		Generator Diesel Engine -					low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler,			PER YEAR 12 MONTH						
	DRILLING		Development					high pressure fuel injection with			ROLLING						
*FL-0338	PROJECT	5/30/2012		Diesel	2229	hp		aftercooler	1.0	T/YR	TOTAL	(0		
								Use of good combustion practices based on the current manufacturer's									
								specifications for these engines, use of									
	SAKE		Emergency					low sulfur diesel fuel, positive crankcase			PER YEAR 12						
	PROSPECT		Generator Diesel					ventilation, turbocharger with aftercooler,			MONTH						
*FL-0338	DRILLING PROJECT	5/30/2012	Engine - C.R.	diamet	2064	L	Caterpillar D3516A 1998	high pressure fuel injection with aftercooler	1.4	T/YR	ROLLING TOTAL	Ι ,					
112-0338	rkoseci	3/30/2012	Luigs	dieser	2004	пр	Catcipinai D3310A 1996	ancicooki	1.7	7 17 1 K	TOTAL	<u> </u>	1				
								Use of good combustion practices based									
	ANADARKO							on the most recent manufacturer's									
	PETROLEUM CORPORATION -		Main Propulsion Generator Diesel					specifications issued for engines and with turbocharger, aftercooler, and high			ROLLING 24						
*FL-0347	EGOM	9/16/2014	Engines	Diesel	9910	hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	injection pressure	12.	G/KW-H	HOUR AVERAGE	е (0		
					1		, and the second		1			1		1	1		
				1				Use of good combustion practices based						1			
	ANADARKO PETROLEUM			1				on the most recent manufacturer's specifications issued for engines and with		1	1			1		1	
	CORPORATION -		Emergency	1				specifications issued for engines and with turbocharger, aftercooler, and high						1			
*FL-0347	EGOM	9/16/2014	Diesel Engine	Diesel	3300	hp	1998 Wartsila 6R32LNE	injection pressure NO SPECIFIC CONTROL	1 -		1	(1	0	1	
								NO SPECIFIC CONTROL									
				1				TECHNOLOGY IS SPECIFED. ENGINE IS REQUIRED TO MEET									
				1				LIMITS ESTABLISHED AS BACT		1	1			1		1	
				1			THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART	(TIER 2 NONROAD). THIS COULD						1			
							OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A-577-P. THE PROJECT	REQUIRE ANY NUMBER OF									
	ADM CORN						ALSO INCLUDES THE INSTALLATION OF ONE 2,00 KW EMERGENCY	CONTROL TECHNOLOGIES AND						12-MONTH			
IA-0088	PROCESSING - CEDAR RAPIDS	(20/2007	EMERGENCY GENERATOR	DIFCEI	1500	ZW	GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TON/YR BACT LIMITS.	OPERATIONAL REQ. TO MEET THE BACT STANDARD.		G/HP-H	AVERAGE OF 3 TEST RUNS		T/YR	ROLLING TOTAL			
IA-0088	CEDAR RAPIDS	6/29/2007	GENERATOR	DIESEL	1500	KW	THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TON/YR BACT LIMITS.	BACI STANDARD.	4.	G/HP-H	TEST KUNS	5.25	9 1/YK	IOIAL	- 0		
	TATE & LYLE			1							AVERAGE OF			12-MONTH			
	INDGREDIENTS		EMERGENCY	1						1	THREE STACK			ROLLING		1	
IA-0095	AMERICAS, INC. IOWA	9/19/2008	GENERATOR	DIESEL	700	KW			6.3	G/KW-H	TEST RUNS	2.39	T/YR	AVERAGE	- 0		
	IOWA FERTILIZER		Emergency	1							AVERAGE OF 3 STACK TEST			ROLLING 12			
IA-0105	COMPANY	10/26/2012	Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	<u> </u>	G/KW-H	RUNS	6.61	TONS/YR	MONTH TOTAL	0	<u></u>	<u> </u>
	POWER																
	COUNTY ADVANCED		2 MW EMERGENCY	1										1			
	ADVANCED ENERGY		GENERATOR,	ASTM #1, 2,				GOOD COMBUSTION PRACTICES.									
ID-0017	CENTER	2/10/2009	SRC25	DIESEL	2000	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	EPA CERTIFIED PER NSPS IIII	1 .		1	1 (1	0	1	
	POWER		500 KW														
	COUNTY		EMERGENCY	1						1	1			1		1	
	ADVANCED ENERGY		GENERATOR, FIRE PUMP,	ASTM #1, 2,				GOOD COMBUSTION PRACTICES.						1			
ID-0017	CENTER	2/10/2009		DIESEL	500	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	EPA CERTIFICATION PER NSPS IIII.	1 .)	SEE NOTE	(1	0		
	LANGLEY		EMERGENCY					TIER 2 ENGINE-BASED,									
ID-0018	GULCH POWER PLANT	6/25/2010	GENERATOR	DIESEL	750	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	GOOD COMBUSTION PRACTICES (GCP)	1 .	G/KW-H	NOX+NMHC	1 .	,	1			
110-0018	CRONUS	0/25/2010	LINGINE	DIESEL	/50	IX IV	COMERCISION IGNITION INTERNAL COMBUSTION (CLICE)	(GCI)	6.	J/KW-H	NOATIMHU	+ '	+	+	1 0		
	CHEMICALS,		Emergency	1				Tier IV standards for non-road engines at						1			
*IL-0114	LLC	9/5/2014	Generator	distillate fuel oil	3755	HP		40 CFR 1039.102, Table 7.	0.6	G/KW-H		1			0		
	ST. JOSEPH		TWO (2) EMERGENCY	1						1	1			1		1	
	ENEGRY		DIESEL	1			THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02,	COMBUSTION DESIGN CONTROLS					HOURS OF	1			
*IN-0158	CENTER, LLC	12/3/2012	GENERATORS	DIESEL	1006	HP EACH	EXHAUST THROUGH TWO (2) VENTS.	AND USAGE LIMITS	4.3	G/HP-H	3 HOURS	500	OPERATION	YEALRY	0		
	ST. JOSEPH		EMERGENCY														
*IN-0158	ENEGRY CENTER, LLC		DIESEL	DIESEI	2012	шь	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	1	G/HP-H	3 HOURS		HOURS OF OPERATION	VEADIV	1 .		
11N-0158	INDIANA	12/5/2012	GENERATOR TWO (2)	DIESEL	2012	***	THROUGH ONE (I) VENT.	GOOD COMBUSTION PRACTICES	4.3	улг-н	5 HOURS	500	OFERATION	LEARLY	1 0		
	GASIFICATION,		EMERGENCY	1		HORSEPOWER,		AND LIMITED HOURS OF NON-						1			
*IN-0166	LLC	6/27/2012	GENERATORS	DIESEL	1341	EACH	IDENTIFIED AS EU-009A AND EU-009B	EMERGENCY OPERATION	1 -)	1	1		-	0		-
	MIDWEST FERTILIZER		DIESEL FIRED EMERGENCY	1			ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT										
*IN-0173	CORPORATION	6/4/2014		NO. 2, DIESEL	3600	BHP	ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	4.4	G/HP-H	3-HR AVERAGE	1 (1	0	1	
	OHIO VALLEY		DIESEL-FIRED		3000				1			1			1		
-n	RESOURCES,		EMERGENCY				ANNUAL VIOLENCE OF ANNUAL PROPERTY OF THE PROP			0.000				1			
*IN-0179	LLC MIDWEST	9/25/2013	GENERATOR DIESEL FIRED	OIL	4690	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	4.4	G/HP-H	3-HR AVERAGE	+ (1	-	- 0		-
	FERTILIZER		EMERGENCY	1			ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT			1	1			1		1	
*IN-0180	CORPORATION	6/4/2014	GENERATOR	NO. 2, DIESEL	3600	BHP	ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	4.4	G/HP-H	3-HR AVERAGE			1	0		
							THE CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO.: QSK78-							1			
				1			G6) SHALL ONLY COMBUST NO. 2 FUEL OIL WITH VERY LOW SULFUR CONTENT AS THE PRIMARY FUEL TYPE. THERE WILL BE NO SECONDARY FUEL FOR							1			
				1			BACKUP, INOTE: THE INCREASE IN SIZE OF THE EMERGENCY BLACK START							1			
				1			GENERATOR CAUSED THE SIGNIFICANT MODIFICATION. IN THE ORIGINAL	EMERGENCY DIESEL GENERATORS	s	1	1			1		1	
			L	1			PERMIT, OCTOBER 21, 2004, THE EMERGENCY BLACK START GENERATOR WAS	HAVE NOT BEEN REQUIRED TO						1			
	NEARMAN CREEK POWER		EMERGENCY BLACK START	NO SELEC			A CATERPILLAR DIESEL GENERATOR (MODEL NO.: 3508 DITA) 900 KW. IT WAS CHANGED TO A CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL	INSTALL ADDITIONAL NOX CONTROLS BECAUSE OF			FULL LOAD						NOT
KS-0028	CREEK POWER STATION		GENERATOR	OII	24.1	MMBTU/H	CHANGED TO A CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO.: QSK78-G6) 2.8 MW.]	INTERMITTENT OPERATION.	0.4	LB/H	OPERATIONS	1		1			NOT AVAILABLE
IIX3-0026	DIATION	10/16/2005	GENERATOR	IOIL	24.1	IVIIVID I U/II	[PO., Qaic (0*G0) 2.0 MW.]	INTERMITTENT OFERATION.	84.	ILO/II	POLEKATIONS		4	1	1 0		ATAILABLE

		PERMIT															
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KBLCID	NAME	DATE	EMERGENCY	FUEL	THROUGHFUT	UNII	PROCESS NOTES	DESCRIPTION	LIMITI	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
			GENERATORS														
			(DOCK & amp; TANK FARM)				21-08: 1341 HP 22-08: 671 HP										
	GARYVILLE		(21-08 & amp; 22	-				USE OF DIESEL WITH A SULFUR			ANNUAL						
LA-0211	REFINERY	12/27/2006	08) DIESEL	DIESEL	1341	HP	GENERATORS PERMITTED FOR 182 H/YR EA.	CONTENT OF 15 PPMV OR LESS GOOD COMBUSTION PRACTICES	0.031	LB/HP-H	AVERAGE	(0		
	CREOLE TRAIL		EMERGENCY					AND GOOD ENGINE DESIGN									
LA-0219	LNG IMPORT TERMINAL	8/15/2007	GENERATOR NOS. 1 & amp; 2	DIESEI	2168	HP EACH		INCORPORATING FUEL INJECTION TIMING RETARDATION (ITR)	37 95	LB/H	HOURLY	9.40	T/VR	ANNUAL MAXIMUM			
			EMERGENCY					,									
	LAKE CHARLES		DIESEL POWER														
	GASIFICATION		GENERATOR	DIESEL		HP EACH		COMPLY WITH 40 CFR 60 SUBPART		LB/H	MAXIMUM (EACH)		G/HP-H				
LA-0231	FACILITY	6/22/2009	ENGINES (2) Large Generator	DIESEL	1341	HP EACH		IIII	17.09	LB/H	(EACH)	5.78	G/HP-H		0		
	FLOPAM INC. FACILITY	4/26/2011	Engines (17				11 units: 591 hp 6 units: 1175 hp			LB/H	(591 HP UNITS)		LB/H	(1175 HP UNITS)		G/KW-H	(NOX + NMHC)
LA-0251		4/26/2011	EMERGENCY	Diesel	0	,	6 units: 11/5 hp		6.32	LB/H	(591 HP UNITS)	10.36	LB/H	(11/5 HP UNITS)	6.4	G/KW-H	(NOX + NMHC)
	AMMONIA PRODUCTION		DIESEL GENERATOR					Compliance with 40 CFR 60 Subpart IIII;									
*LA-0272	FACILITY	3/27/2013	(2205-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	good combustion practices.	0						6.4	G/KW-HR	NOX + NMHC
	SALEM HARBOR																
	STATION																
*MA-0039	REDEVELOPME NT	1/20/2014	Emergency Engine/Generator	III SD	7.	MMBtu/hr	â‰□ 300 hours of operation per 12-month rolling period S in ULSD: â‰□0.0015% by weight		1.9	G/HP-H	1 HR BLOCK AVG	11.4	LB/H	1 HR BLOCK AVG			
WIA-0037	181	1/30/2014	THREE (3)	CLSD	/.9	iviivii)iii	5 iii 01:50. and-0.001576 by weight		7.0	G/III-II	Avo	11.0	LDII	Avo	,		
			DIESEL (NO. 2 FUEL OIL)														
			FIRED,														
			EMERGENCY GENERATORS														
			EACH RATED														
			AT 2500 KILOWATTS														
	MEDIMMUNE		(3604 BRAKE														
MD-0037	FREDERICK CAMPUS	1/28/2008	HORSEPOWER	DIESEL (NO. 2 FUEL OIL)	2500	kw			6.06	G/HP-H		(,		6.06	G/HP-H	
	WILDCAT			, , ,				LIMITED OPERATING HOURS, USE									
	POINT GENERATION		EMERGENCY	ULTRA LOW			40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION	OF ULTRA- LOW SULFUR FUEL AND GOOD COMBUSTION									
*MD-0042	FACILITY PERRYMAN	4/8/2014	GENERATOR 1	SULFU DIESEL	2250	KW	PRACTICES	PRACTICES GOOD COMBUSTION PRACTICES.	4.8	G/HP-H		6.4	G/KW-H		0		
	GENERATING		EMERGENCY	ULTRA LOW SULFUR				LIMITED HOURS OF OPERATION,									
*MD-0043	STATION	7/1/2014	GENERATOR	DIESEL ULTRA LOW	1300	HP	40 CFR 60 SUBPART IIII, GOOD COMBUSTION PRACTICES	AND EXCLUSIVE USE OF ULSD GOOD COMBUSTION PRACTICES	4.8	G/HP-H		6.4	G/KW-H		0		
	COVE POINT		EMERGENCY	SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION	AND DESIGNED TO ACHIEVE			COMBINED NOX			COMBINED NOX			
*MD-0044	LNG TERMINAL	6/9/2014	GENERATOR	DIESEL	1550	HP	PRACTICES	EMISSION LIMIT	4.8	G/HP-H	+ NMHC	6.4	G/KW-H	+ NMHC	0		
								No add-on controls, but ignition timing									
	WARREN TECHNICAL		Four (4)					retardation (ITR) is good design. Engines are tuned for low-NOx operation versus			EACH GENERATOR						
MI-0394	CENTER	2/29/2012	Emergency Generators	Diesel	2280	KW	Each generator is 2280 kW (3058 hp each). Standard generator sets.	low CO operation.	6.93	G/KW-H	ENGINE				0		
							Each emergency generator is 3010 kW each (4035 hp each). DRUPS stands for Diesel Rotary	No add-on controls, but ignition timing									
	WARREN		Nine (9) DRUPS				Uninterruptable Power supply system. The system provides for zero down-time in electrical	retardation (ITR) is good design. Engines			EACH						
MI-0394	TECHNICAL CENTER	2/29/2012	Emergency Generators	Diesel	3010	kw	energy supply at the onset of a power outage. The system stores energy in a fly-wheel that powers the generator until the diesel engine starts up.	are tuned for low-NOx operation versus low CO operation.	5 98	G/KW-H	GENERATOR ENGINE	۱ .					
		22,:2012			3010				3.90			<u> </u>					
	WARREN		Nine (9) DRUPS				Each generator is 3010 KW each (4035 hp each). DRUPS stands for Diesel Rotary Uninterruptable Power supply system. The system provides for zero down-time in electrical	No add-on controls, but ignition timing retardation (ITR) is good design. Engines			EACH						
MI-0395	TECHNICAL	#H212012	Emergency Generators			LW.	energy supply at the onset of a power outage. The system stores energy in a fly-wheel that	are tuned for low-NOx operation versus		G/KW-H	GENERATOR	.					
M1-0395	CENTER	7/13/2012		Diesel	3010	K.W	powers the generator until the diesel engine starts up.	low CO operation. No add-on control, but ignition timing	5.98	G/KW-H	Litterite	+ (0		
	WARREN TECHNICAL		Four (4)					retardation (ITR) is good design. Engines			EACH GENERATOR						
MI-0395	CENTER	7/13/2012	Emergency Generators	Diesel	2500	KW	Each generator is 2500 KW (3634 hp each). Standard generator sets.	are tuned for low-NOx operation versus low CO operation.	7.13	G/KW-H	ENGINE ENGINE				0		
			Turbine generator				This is a turbine generator identified in the permit as EUBLACKSTART. It has a throughput										
	WOLVERINE		(EUBLACKSTA				capacity of 540MMBTU/HR which equates to 102 MW. The maximum operation was based on				TEST						
*MI-0400	POWER	6/29/2011	RT)	Diesel	540	MMBTU/H	500 hours per year. THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP		0.16	LB/MMBTU	PROTOCOL	- (-		0		
	FAIRBAULT		EMERGENCY	[l			GENERATOR (LISTED AS A ' ' IC ENGINE, LARGE, FUEL OIL) IN MN-				3 HOUR						
MN-0071	ENERGY PARK CONCORD	6/5/2007	GENERATOR	NO. 2	1750	KW	0053	LESS THAN 500 HOURS OF	0.024	LB/HP-H	AVERAGE OF 3 1	. (1		0		
	STEAM		EMRGENCY	Damana Marie				OPERATION PER CONSECUTIVE 12		I B/MMRTII	HOUR TEST						
NH-0015	CORPORATION	2/27/2009	GENERATOR 1	DIESEL FUEL	5.6	MMBTU/H	OPERATES LESS THAN 500 HOURS PER CONSECUTIVE 12 MONTH PERIOD	MONTH PERIOD OPERATES LESS THAN 500 HOURS	1.98	LB/MMBTU	AVERAGE OF 3 1	. (1	1	- 0		
	STEAM		EMERGENCY	numany			OPERATES LESS THAN 500 HOURS PER CONSECUTIVE 12 MONTH PERIOD AND	PER CONSECUTIVE 12 MONTH			HOUR TEST						
NH-0015	CORPORATION WOODBRIDGE	2/27/2009	GENERATOR 2	DIESEL FUEL	11.6	MMBTU/H	PRIMARY USE IS TO START UP BOILER 1 AFTER A POWER OUTAGE.	PERIOD.	1.98	LB/MMBTU	RUNS	+ (1		0		
NII 0050	ENERGY	manac	Emergency	Ultra Low Sulfur		HAZD	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm %	II CHICD E 1 "		I Day							
NJ-0079	CENTER HESS NEWARK	7/25/2012	Generator	distillate Diesel	100	H/YR	Sulfur by weight only	Use of ULSD diesel oil	21.16	LB/H		1			0		
	ENERGY	I	Emergency	1	I			use of ultra low sulfur diesel (ULSD) a	1		1	1		1	1	1	
NJ-0080	CENTER	11/1/2012	Ct	ULSD	200	H/YR		clean fuel	10.53	LB/H	1		il.	1			

								I									1
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
				İ			UNIT FL12 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS VEGAS. LIKE										
			SMALL INTERNAL				ALL THE OTHER DIESEL GENERATORS, THE UNIT IS SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36										
			COMBUSTION				HOURS PER YEAR RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE										
	HARRAH'S OPERATING		ENGINE (<600 HP) -				USED TO CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT REPEATED	THE UNIT IS EQUIPPED WITH A									
NV-0049	COMPANY, INC.	8/20/2009	UNIT FL12	DIESEL OIL	536	HP	FURTHER FOR REPORTING THE BACT DETERMINATIONS.	TURBOCHARGER.	0.031	LB/HP-H		16.62	LB/H		0.031	LB/HP-H	
	,		DIESEL														
			EMERGENCY GENERATORS]			THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY GENERATORS, EACH OF WHICH IS RATED AT 3.622 HORSEPOWER (HP).										
			UNITS CC009				OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY AND										
			THRU CC015				TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE PRUPOSES ONLY. THE										
NV-0050	MGM MIRAGE	11/30/2009	AT CITY CENTER	DIESEL OIL	3622	HP	EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006.	TURBOCHARGER AAND AFTER- COOLER	0.01	LB/HP-H		37.4	LB/H		0.01	LB/HP-H	
117 0030	MOM MICROE	11/30/2007		DIESEE GIE	3022		THE TWO UNITS ARE IDENTICAL CATERPILLAR GENERATORS MODEL 3512C.	COOLER	0.01			37.1	LLDIII		0.01	LD	
			EMERGENCY GENERATORS				EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION ENGINE RATED AT 2,206 HORSE POWER (HP). THE EMISSION LIMITS REPORTED HEREIN ARE BASED										
			UNITS LX024	1			ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH										
			AND LX025 AT	· [UNIT IS ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO	COOLING, AND LEAN-BURN									
NV-0050	MGM MIRAGE	11/30/2009	LUXOR	DIESEL OIL	2206	HP	HOURS PER YEAR. 2922 MAXIMUM HORSE POWER	TECHNOLOGY	0.0131	LB/HP-H		28.98	LB/H		0.0131	LB/HP-H	
							SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-RESETTABLE HOUR METER										
							PRIOR TO STARTUP PER 40 CFR 60.4209(A)	GOOD COMBUSTION PRACTICES, GOOD ENGINE DESIGN, IGNITION			1						FOR NMHC
	OHIO RIVER						DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207:	TIMING RETARD, TURBOCHARGER,									AND NOX
	CLEAN FUELS,		EMERGENCY	DIESEL FUEL			SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR	AND LOW-TEMPERATURE						PER ROLLING 12			COMBINED 95%
OH-0317	LLC OREGON	11/20/2008	GENERATOR	OIL	2922	HP	AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	AFTERCOOLER	26.47	LB/H	+	6.61	I T/YR	MONTH PERIOD	6.4	G/KW-H	NOX
	CLEAN ENERGY		Emergency					Purchased certified to the standards in						PER ROLLING 12			
*OH-0352	CENTER	6/18/2013	generator EMERGENCY	diesel	2250	KW	Emergency diesel fired generator restricted to 500 hours of operation per rolling 12-months.	NSPS Subpart IIII	27.8	LB/H		6.95	T/YR	MONTHS	0		SEE NOTES
			DIESEL					USE OF LOW SULFUR NO.2 FUEL	1								1
	HUGO		INTERNAL					OIL COMBINED WITH GOOD									
	GENERATING		COMBUSTION					COMBUSTION PRACTICES AND			ann Mam						
OK-0118	STA	2/9/2007	ENGINES					LIMITED ANNUAL OPERATION	- 0		SEE NOTE	- 0)		0		
	MID AMERICAN																
OK-0128	STEEL ROLLING MILL	0.00/2000	Emergency Generator	No. 2 diesel	1200	IIID		5001	15.0	LB/H		1	T/YR		5.00	G/HP-H	
OK-0128	MILL	9/8/2008	EMERGENCY	No. 2 diesei	1200	HP		500 hours per year operations	15.0	LB/H		3.9	7 1/Y K		5.90	G/HP-H	-
			DIESEL														
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	GENERATOR (2200 HP)	LOW SULFUR DIESEL	2200	IID			22.16	LB/H			G/KW-H	NSPS			
OK-0129	FOWER FLANT	1/23/2009	MOBILE	DIESEL	2200	nr			23.13	LD/II		0.4	+ G/KW-FI	NSFS			
	MERCK & CO.		EMERGENCY														
PA-0271	WESTPOINT MOXIE LIBERTY	2/23/2007	GENERATOR	DIESEL					6.8	G/HP-H		8.3	3 T/YR		0		
	LLC/ASYLUM		Emergency														
PA-0278	POWER PL T JOHNSON	10/10/2012	Generator 650-KW	Diesel	0		The emergency generator will be restricted to operate not more than 100 hr/yr.		4.93	G/HP-H		0)		4.93	G/B-HP-H	
	MATTHEY		BACKUP				The permittee shall ensure that the Backup Diesel Generator shall not be operated more than fifty (50) hours per year as a 12-month rolling sum.										
	INC/CATALYTIC		DIESEL				The permittee may not, at any time, use commercial fuel oil as fuel for the Backup Diesel										
*PA-0282	SYSTEMS DIV JOHNSON	6/1/2012	GENERATOR 400-KW	Diesel / #2 Oil	45.8	GAL/H	Generator which contains sulfur in excess of 0.3% by weight.		6.9	G/HP-H		11.34	LB/H		0		
	MATTHEY		DIESEL														
	INC/CATALYTIC		EMERGENCY														
*PA-0282	SYSTEMS DIV HICKORY RUN	6/1/2012	GENERATOR	#2 Oil	29.2	GAL/H			6.9	G/HP-H	-	- 0)	12-MONTH	0		
	ENERGY		EMERGENCY	Ultra Low sulfur										ROLLING			
*PA-0291	STATION	4/23/2013	GENERATOR DIESEL	Distillate	7.8	MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		9.89	LB/H		0.49	T/YR	TOTAL	0		-
			GENERATOR						1								1
	ML 35		(2.25 MW						1								1
*PA-0292	LLC/PHILA CYBERCENTER	6/1/2012	EACH) - 5	#2 Oil		J	Engines are equipped with SCR and CO Oxidation catalyst	SCR	0.00	G/KW-H	1		T/YR	12-MONTH ROLLING SUM			1
rA-0292	ENERGY	6/1/2012	UNIIS	#2 OII	1 0		Engines are equipped with SCR and CO Oxidation catalyst	SCR.	0.67	G/KW-H	1	0.41	I/YK	KULLING SUM	0		+
	ANSWERS										1						1
	ARECIBO PUERTO RICO																1
	RENEWABLE										1						1
*DD 0000	ENERGY PROJECT	,	Emergency	ULSD Fuel oil #]	Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and			G/HP-H	1		LB/H				1
*PR-0009	PROJECT	4/10/2014	Diesel Generator EMERGENCY	12	1 0	1	testing and maintenance, combined) THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF EIGHT (8)	1	2.85	G/HP-H	+	4.2	LB/H		0		+
	PYRAMAX		GENERATORS				IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND POLLUTANT	ENGINES MUST BE CERTIFIED TO	1								1
SC-0113	CERAMICS, LLC	2/8/2012	1 THRU 8 DIESEI	DIESEL	757	HP	INFORMATION IS FOR ONE SINGLE EMERGENCT GENERATOR.	COMPLY WITH NSPS, SUBPART IIII.	4	G/KW-H	+	- 0	1		0		+
	GP ALLENDALE		EMERGENCY				THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR				1						1
SC-0114	LP	11/25/2008	GENERATOR	DIESEL	1400	НР	EMERGENCY PURPOSES.		11.41	LB/H		2.85	T/YR		0		1
		,					THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR					1	ľ				1
							EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL	1								1
			DIESEL					BE PERFORMED AS OUTLINED IN			1						1
CC 011F	GP CLARENDON		EMERGENCY	DIECEI		Lup	THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF OPERATION	THE GOOD MANAGEMENT PRACTICE PLAN.			1		TAND				1
SC-0115	ARGOS	2/10/2009	GENERATOR	DIESEL	1400	nr nr	PER YEAR.	PLAN.	11.41	LB/H	+	2.85	T/YR	_	0		+
	HARLEYVILLE		EMERGENCY								1						1
*SC-0132	PLANT	12/14/2007	GENERATOR	DIESEL	1000	kw			0		1	0			0		1
				_				•					•	_			

Table D-D-1 Nitrogen Oxides (NO_x) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT															
	FACILITY	ISSUANCE	PROCESS	PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	NAME	DATE	NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	DEER CREEK		Emergency														
*SD-0005	STATION	6/29/2010	Generator	Distillate Oil	2000	Kilowatts			0			(0		
							Two mergency diesel fired generators proposed. Each engine will be 4000 kW.										
							Ultra low sulfur fuel is burned in the engines to meet the sulfur requirement of 15										
							ppm in 40CFR80.510(b). Each emergency engine is being permitted for	emission factor is based on EPA's									
				ultra low sulfur			maintenance and testing for maximum 100 hrs/yr. They are not being permitted for										
*TX-0671	PROJECT JUMBO	12/1/2014	Engines	diesel fuel	0		the actual emergency emissions	NOx	5.43	G/KW-H		2.39	TPY		0		
							. (50) 47 4 4)										
							The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500										
							horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited										
							hours of operation. Emissions from the engine shall not exceed 0.0218 grams per										
							horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52										
							hours per year of non-emergency operation.										
							Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide										
							(CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra										
							low sulfur diesel). The engine is limited to 52 hours per year of non-emergency										
							operation.										
	PEONY						Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression										
	CHEMICAL		Emergency				Ignition Internal Combustion Engine and										
	MANUFACTURIN		Diesel				40CFR63 ZZZZ. National Emissions Standards For Hazardous Air Pollutants For	Minimized hours of operations Tier I	ıl								
*TX-0728	G FACILITY	4/1/2015	Generator	Diesel	1500	hn	Stationary Reciprocating Internal Combustion Engines.	engine		G/HP-H		0.35	TPY		0		
	BP CHERRY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						THE ENGINE MUST BE NEW AND									
	POINT							MUST SATISFY THE FEDERAL ENGINE									
	COGENERATION		EMERGENCY					STANDARDS OF 40 CFR 89 FOR YEAR									
WA-0328	PROJECT	1/11/2005	GENERATOR	DIESEL FUEL	1.5	MW		OF PURCHASE.	0						0		*SEE NOTES
	DARRINGTON																
	ENERGY																
	COGENERATION		STANDBY					ENGINE MUST BE NEW AND SATISFY	1								
WA-0329	POWER PLANT	2/11/2005	GENERATOR	DIESEL FUEL	1	MW		FEDERAL STANDARDS @ 40 CFR 89	0		SEE NOTE				0		
	MOUNDSVILLE																
	COMBINED																
	CYCLE POWER		Emergency	1												l .	
*WV-0025	PLANT	11/21/2014		Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.	1	0		1	1 0	1		4.8	G/HP-HR	NMHC + NOX
	CHEYENNE PRAIRIE		Diesel														
	GENERATING		Emergency Generator	Ultra Low													
******	STATION	8/28/2012		Sulfur Diesel	839	ho		EPA Tier 2 rated	.			,	J				
*WY-0070	STATION	8/28/2012	((ELT2)	Sullur Diesel	839	np		EPA TIET Z Tated	1				'		1 0		

		PERMIT															
RBLCID		ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KBLCID		D.C.L.	Black Start and	ICLL	- Intocom cr	0.112		DESCRIPTION		0.111		La.m.r.z	10.111	CONDITION	Liniosion Linii	10.111	CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/20/2015	Emergency Internal	Diesel	1500	kWe	Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency	Cond Combustion Prosting	4.29	G/KW-HR	3-HOUR AVERAGE						
*AK-0084	LAKE CHARLES		Cumbustion Engines Diesel Engines	Diesei			diesel generators.	Good Combustion Practices	4.38	G/KW-HK	AVERAGE		0		-	'	
LA-0305	METHANOL FACILITY	6/30/2016	(Emergency)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	0				0		()	
	ST. JAMES METHANOL		DEG1-13 - Diesel Fired Emergency Generator														
*LA-0312	PLANT	6/30/2017	Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	0.51	LB/HR			0		()	
								Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60									
								Subpart IIII, and good combustion									
LA-0313	ST. CHARLES POWER STATION	9/21/2014	SCPS Emergency Diesel Generator 1	Dissal	2584	IID		practices (use of ultra-low sulfur diesel	14.01	LB/H	HOURLY MAXIMUM	١,	.7 T/YR	ANNUAL MAXIMUM	,,		
LA-0313	CAMERON LNG		emergency generator	Diesei				ruei).	14.81	LB/H	MAXIMUM	,	./ I/YK	MAXIMUM	2.0	1	
LA-0316	FACILITY	2/17/2017	engines (6 units)	diesel	3353	hp	V CDD 1001 W CDD 1001	Complying with 40 CFR 60 Subpart IIII	0				0		()	
	METHANEX - GEISMAR		Emergency Generator				I-GDE-1201, II-GDE-1201 = 2346 hp I-GDE-1202 = 755 hp	complying with 40 CFR 60 Subpart IIII									
LA-0317	METHANOL PLANT	12/22/2016	Engines (4 units)	Diesel	0	1	I-GDE-1203 = 1193 hp	and 40 CFR 63 Subpart ZZZZ	0				0		()	
			Emergency Diesel Generator Engine								TEST PROTOCOL			TEST PROTOCOL			
	GRAYLING		(EUEMRGRICE in				One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in				WILL SPECIFY			WILL SPECIFY			
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	500	H/YR	FGRICE).	Good design and combustion practices.	3.5	G/KW-H	AVG TIME	12.3	35 LB/H	AVG TIME	-)	
							a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine				TEST						
			ELIEN MENICONIE (D. 1				manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted				PROTOCOL						
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine) EUEMRGRICE1 in	Diesel Fuel	22.68	MMBTU/H	to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices and meeting NSPS Subpart IIII requirements.	3.5	G/KW-H	SHALL SPECIFY AVG TIME		0				
			EUEMRGRICE1 in								TEST			TEST			
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	FGRICE (Emergency diesel generator engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Good design and combustion practices.	3.5	G/KW-H	PROTOCOL SHALL SPECIFY	11	.6 LB/H	PROTOCOL SHALL SPECIFY	"		
111 0 123	THETELLIOTUS	3/3/2017		Dieses	200	TE TR	i dice.	Cood design and comounton practices.	5.5	GIKW II			.0 11011		,		
	GRAYLING		EUEMRGRICE2 in FGRICE (Emergency				One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in				TEST PROTOCOL			TEST PROTOCOL			
MI-0425	PARTICLEBOARD	5/9/2017	Diesel Generator Engine)	Diesel	500	H/YR	FGRICE).	Good design and combustion practices.	3.5	G/KW-H	SHALL SPECIFY	3	.9 LB/H	SHALL SPECIFY)	
			EUEMENGINE (North				A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model										
	MEC NORTH, LLC AND		Plant): Emergency				year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel	Good combustion practices and meeting									
*MI-0433	MEC SOUTH LLC	6/29/2018	Engine	Diesel	1341	HP	particulate filter.	NSPS Subpart IIII requirements.	3.5	G/KW-H	HOURLY		0		()	
			EUEMENGINE (South				A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model yea of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to	r									
	MEC NORTH, LLC AND		Plant): Emergency				be compliant with Tier IV emission standards. Equipped with a diesel particulate	Good combustion practices and meeting									
*MI-0433	MEC SOUTH LLC BELLE RIVER	6/29/2018	Engine	Diesel	1341	HP	filter. A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later	NSPS IIII requirements.	3.5	G/KW-H	HOURLY	-	0		(
	COMBINED CYCLE		EUEMENGINE:				and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified										
*MI-0435	POWER PLANT POINT THOMSON	7/16/2018	Emergency engine	Diesel	2	MW	engine subject to NSPS IIII.	State of the art combustion design.	3.5	G/KW-H	HOURLY		0		()	
	PRODUCTION		Combustion of Diesel by														
AK-0076	FACILITY	8/20/2012	ICEs	ULSD	1750	kW	Diesel-fired generators		3.5	G/KW-H			0		()	
	POINT THOMSON PRODUCTION		Emergency Camp	Ultra Low Sulfur													
*AK-0082	FACILITY	1/23/2015	Generators	Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		2.6	G/HP-H			0		()	
	POINT THOMSON PRODUCTION		Bulk Tank Generator	Ultra Low Sulfur													
*AK-0082	FACILITY	1/23/2015	Engines	Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		2.6	G/HP-H			0		()	
AL-0251	HILLABEE ENERGY CENTER	9/24/2008	EMERGENCY GENERATOR	DIESEL	600	EKW		GOOD COMBUSTION PRACTICES					0		(
	ARIZONA CLEAN		EMERGENCY	NO. 2 DIESEL	-			GOOD COMBONION TRACTICES							<u> </u>	1	NOT
AZ-0046	FUELS YUMA VICTORVILLE 2	4/14/2005	GENERATOR	FUEL	10.9	MMBTU/H	EQUIPMENT IDENTIFIED BY ID # S-29100		3.5	G/KW-H		-	0		(AVAILABLE
	HYBRID POWER							OPERATIONAL RESTRICTION OF 50					1				
CA-1191	PROJECT PALMDALE HYBRID	3/11/2010	EMERGENCY ENGINE EMERGENCY IC	DIESEL	2000	KW	2000 KW (2,683 hp) engine	HR/YR	3.5	G/KW-H		2	.6 G/HP-H	+	(+
CA-1212	POWER PROJECT	10/18/2011		DIESEL	2683	HP	UNIT IS 2000 KW.		3.5	G/KW-H			.6 G/HP-H				
	SHADY HILLS							PURCHASED MODEL IS AT LEAST AS STRINGENT AS THE BACT	1		3 ONE HOUR						
	GENERATING		2.5 MW EMERGENCY	ULTRA LOW S				VALUES UNDER EPA'S			TEST RUNS BY						
FL-0310	STATION	1/12/2009	GENERATOR	OIL	2.5	MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR	CERTIFICATION.	8.5	G/HP-H	EPA METHOD 10		0		-)	
							Two emergency generators, each rated at 2,000 kW, will be installed to provide										
							backup electrical power in the event of a power outage at the SRF facility. The										
							engines will fire ULSD fuel oil or propane and each will be limited to 500 hours per year of operation during emergencies. Each unit will be operated no more than 100										
	SWEET SORGHUM-TO-						hours per year for testing and maintenance purposes per 40 CFR 60. Subpart IIII										
FL-0322	ETHANOL ADVANCED	12/22/2016	Emergency Generators, Two 2682 HP EA	III SD			Each engine will be designed to meet USEPAâ€TMs emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.		1	G/KW-H] .	,	
FL-0322	DIOREFINERT	12/25/2010	1 WO 2082 HP EA	ULSD	1 0		CFK Part 00 Suppart HH for model year 2006 or later.		3.3	G/KW-H	1		0	+	+ '	+	+
	PAUL HOLV OR COS							Use of good combustion practices, based			12 1401						
	ENI - HOLY CROSS	1	Emergency Engine	Diesel	580	HP	MAN D-2842 LE model engine	on the current manufacturer's specifications for this engine	0.09	T/YR	12-MONTH ROLLING	,,	82 G/HP-H		"		
*FL-0328	DRILLING PROJECT	10/27/2011					The second secon	-,	0.05		- COLLEGE	2.0			+ '	1	
*FL-0328	DRILLING PROJECT	10/27/2011	Emergency Engine								1						
*FL-0328	DRILLING PROJECT	10/27/2011	Emergency Engine				One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup electrical power in the event of a power outage at the HEF facility. The										
*FL-0328		10/27/2011	Emergency Engine				backup electrical power in the event of a power outage at the HEF facility. The generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per										
*FL-0328	HIGHLANDS	10/27/2011	Lines gency Engine				backup electrical power in the event of a power outage at the HEF facility. The generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation during emergencies. The unit will be operated no more than 100										
			2000 KW Emergency Equipment				backup electrical power in the event of a power outage at the HEF facility. The generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per	See Pollutant Notes.		G/KW-H							

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT		PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	600 HP Emergency	Ultra-Low Sulfur	0		One 600 hp diesel fire pump engine will be installed to provide firewater during power outages. This unit will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation. This unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPAåE ^(PN, S) emission standards listed in 40 CFR Part 60 Subpart III for modely ear 2009 or latter.	See Pollutant Notes.	2.6	G/HP-H							
							,	Use of good combustion practices based									
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller 1	Diesel	2229	hp		on the current manufactures to used on the current manufactures of the specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.37	T/YR	PER YEAR 12 MONTH ROLLING TOTAL)		C		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C.R. Luigs	diesel	2064	hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturerië™s, specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler aftercooler	0.34	T/YR	PER YEAR 12 MONTH ROLLING TOTAL						
			Four 3100 kW black start			MMBtu/hr (HHV)											
*FL-0346	LAUDERDALE PLANT	4/22/2014	emergency generators	ULSD	2.32	per engine	Fired with ULSD	Good combustion practice	3.5	G/KW-H)		0		
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD	29	MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice.	3.5	G/KW-H					0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Main Propulsion Generator Diesel Engines	Diesel	9910	hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0.8	G/KW-H	ROLLING 24 HOUR AVERAGE	€ (D		0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Emergency Diesel Engine	Diesel	3300	hp	1998 Wartsila 6R32LNE	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0						0		
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	EMERGENCY GENERATOR	DIESEL	1500	KW	THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A 577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,00 KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATOR. BEAMT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TONYR BACT LIMIT.	INCERON PROSULTS OF THE CONTROL TECHNOLOGY IS SPECIFED ENGINE IS REQUIRED TO MEET LIMITS ESTABLISHED AS BACT (TIER 2 NOROAD). THIS COULD REQUIRE ANY NUMBER OF CONTROL TECHNOLOGIES AND OPERATIONAL REQ. TO MEET THE BACT STANDARD.	2.6	G/HP-H	AVERAGE OF 3 TEST RUNS	2.83	S T/YR	12-MONTH ROLLING TOTAL			
	TATE & LYLE INDGREDIENTS		EMERGENCY								AVERAGE OF			12-MONTH ROLLING			
IA-0095	INDGREDIEN IS AMERICAS, INC.	9/19/2008	GENERATOR GENERATOR	DIESEL	700	KW			3.5	G/KW-H	THREE STACK TEST RUNS AVERAGE OF 3 STACK TEST	1.35	5 T/YR	TOTAL ROLLING 12	0		
IA-0105	COMPANY CF INDUSTRIES NITROGEN, LLC -	10/26/2012	Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	3.5	G/KW-H	RUNS AVERAGE OF THREE (3)	3.80	5 T/YR	MONTH TOTAL ROLLING	0		
	PORT NEAL NITROGEN										STACK TEST			TWELVE (12)			
*IA-0106	COMPLEX POWER COUNTY ADVANCED ENERGY CENTER		2 MW EMERGENCY	ASTM #1, 2, DIESEL	2000	GAL/H	There are two (2) identically sized generators.	good combustion practices GOOD COMBUSTION PRACTICES. EPA CERTIFIED PER NSPS IIII	3.5	G/KW-H	RUNS SEE NOTE	2.5.	2 T/YR	MONTH TOTAL			
ID-0017	POWER COUNTY	2/10/2009	500 KW EMERGENCY		2000	W.W	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE		1 0		SEE NUTE	<u> </u>	1				
ID-0017	ADVANCED ENERGY CENTER	2/10/2009	GENERATOR, FIRE PUMP, SRC26	ASTM #1, 2, DIESEL	500	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	GOOD COMBUSTION PRACTICES. EPA CERTIFICATION PER NSPS IIII. TIER 2 ENGINE-BASED,	0		SEE NOTE	-			0	-	
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	EMERGENCY GENERATOR ENGINE	DIESEL	750	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	GOOD COMBUSTION PRACTICES (GCP)	3.5	G/KW-H							
*IL-0114	CRONUS CHEMICALS, LLC		Emergency Generator	distillate fuel oil	3755			Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.		G/KW-H					0		
	ST. JOSEPH ENEGRY		TWO (2) EMERGENCY				THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND						HOURS OF OPERATIO				
*IN-0158	CENTER, LLC	12/3/2012	DIESEL GENERATORS	DIESEL	1006	HP EACH	EG02, EXHAUST THROUGH TWO (2) VENTS.	AND USAGE LIMITS	2.6	G/HP-H		500	HOURS OF	YEARLY	0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL	2012	HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS GOOD COMBUSTION PRACTICES	2.6	G/HP-H	3 HOURS	500	OPERATIO N	YEARLY	0		
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS	DIESEL	1341	HORSEPOWER, EACH	IDENTIFIED AS EU-009A AND EU-009B	GOOD COMBUSTION PRACTICES AND LIMITED HOURS OF NON- EMERGENCY OPERATION	0						0		
-D104	MIDWEST FERTILIZER		DIESEL FIRED EMERGENCY				ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS.										
*IN-0173	CORPORATION	6/4/2014	GENERATOR DIESEL-FIRED	NO. 2, DIESEL	3600	BHP	INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.61	G/HP-H	3-HR AVERAGE	+ ')		1 0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	EMERGENCY GENERATOR DIESEL FIRED	NO. 2 FUEL OIL	4690	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	2.61	G/HP-H	3-HR AVERAGE	(0		<u> </u>
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	EMERGENCY GENERATOR	NO. 2, DIESEL	3600	ВНР	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.61	G/HP-H	3-HR AVERAGE				0		

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
							THE CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO. 958/TS-66) SHALL ONLY COMBUST NO. 2 FUEL OIL WITH VERY LOW SULFUR CONTENT AS THE PRIMARY FUEL TYPE. THERE WILL BE NOS SECONDARY FUEL FOR BACKUP. [NOTE: THE INCREASE IN SIZE OF THE EMERGENCY BLACK START GENERATOR CAUSED THE SIGNIFICANT MODIFICATION. IN THE ORIGINAL PERMIT, OCTOBER 21, 2004. THE EMERGENCY BLACK START GENERATOR WAS A										
CS-0028	NEARMAN CREEK POWER STATION	10/18/2005	EMERGENCY BLACK START GENERATOR	NO. 2 FUEL OIL	24.	MMBTU/H	CATERPILLAR DIESEL GENERATOR (MODEL NO.: 3508 DITA) 900 KW. IT WAS CHANGED TO A CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO.: QSK78-G6) 2.8 MW.]	GOOD ENGINE DESIGN IS PROPOSED AS BACT	7.01	LB/H	FULL LOAD OPERATIONS	0					NOT AVAILABLE
			EMERGENCY GENERATORS (DOCK & Amp; TANK FARM)				21-08: 1341 HP 22-08: 671 HP	USE OF DIESEL WITH A SULFUR			ANNUAL						
_A-0211	GARYVILLE REFINERY	12/27/2006	(21-08 & Samp; 22-08) DIESEL EMERGENCY	DIESEL	134	HP	GENERATORS PERMITTED FOR 182 H/YR EA.	CONTENT OF 15 PPMV OR LESS GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.0067	LB/HP-H	AVERAGE	0					
_A-0219	CREOLE TRAIL LNG IMPORT TERMINAL LAKE CHARLES	8/15/2007	GENERATOR NOS. 1 & amp; 2 EMERGENCY DIESEL	DIESEL	216	HP EACH		INCORPORATING FUEL INJECTION TIMING RETARDATION (ITR)	12.24	LB/H	HOURLY MAXIMUM	3.06	T/YR	ANNUAL MAXIMUM	(
_A-0231	GASIFICATION FACILITY FLOPAM INC.	6/22/2009	POWER GENERATOR ENGINES (2) Large Generator Engines	DIESEL	134	HP EACH	11 units: 591 hp	COMPLY WITH 40 CFR 60 SUBPART IIII	0.62	LB/H	MAXIMUN (EACH)	0.21	G/HP-H				
_A-0251	FACILITY NINEMILE POINT ELECTRIC	4/26/2011	(17 units) EMERGENCY DIESEL	Diesel			6 units: 1175 hp	no additional control ULTRA LOW SULFUR DIESEL AND	0.03	LB/H	(591 HP UNITS) ANNUAL	0.06	LB/H	(1175 HP UNITS)	3.5	G/KW-H	ANNUAL
_A-0254	GENERATING PLANT AMMONIA PRODUCTION	8/16/2011	GENERATOR EMERGENCY DIESEL	DIESEL	1250	HP		GOOD COMBUSTION PRACTICES Compliance with 40 CFR 60 Subpart IIII:	2.6	G/HP-H	AVERAGE	0			2.6	G/HP-H	AVERAGE
LA-0272	FACILITY SALEM HARBOR STATION	3/27/2013	GENERATOR (2205-B) Emergency	DIESEL	120	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR. ≠300 hours of operation per 12-month rolling period	good combustion practices.	0		1 HR BLOCK AVG	0		1 HR BLOCK AVG	3.5	G/KW-HR	
*MA-0039	REDEVELOPMENT WILDCAT POINT	1/30/2014	Engine/Generator	ULSD	7.4	MMBtu/hr	S in ULSD: â‰□0.0015% by weight	USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND	2.6	G/HP-H	INCLUDING SS	6.34	LB/H	INCLUDING SS			
MD-0042	GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFU DIESEL ULTRA LOW	2250	KW	40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	HOURS OF OPERATION LIMITED TO 100 HOURS PER YEAR IGOOD COMBUSTION PRACTICES		G/HP-H		3.49	G/KW-H		(
MD-0044	COVE POINT LNG TERMINAL KARN WEADOCK	6/9/2014	EMERGENCY GENERATOR	SULFUR DIESEL ULTRA LOW	1550	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	AND DESIGNED TO MEET EMISSION LIMIT	2.6	G/HP-H		3.49	G/KW-H				
MI-0389	GENERATING COMPLEX	12/29/2009	EMERGENCY GENERATOR	SULFUR DIESEL	200	KW	2980 HP. OPERATIONAL LIMITS: 1 HR/DAY, 500 HRS/YR FOR PM2.5 NAAQS. THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	3.5	G/KW-H	TEST METHOD	0)	
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	EMERGENCY GENERATOR	NO. 2	175	KW	THE 670 HP GENERATOR (LISTED AS A ' ' IC ENGINE, LARGE, FUEL OIL) IN MN-0053		0.006	LB/HP-H	3 HOUR AVERAGE	0					
NJ-0079	WOODBRIDGE ENERGY CENTER HESS NEWARK		Emergency Generator	Ultra Low Sulfur distillate Diesel		H/YR	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD oil		LB/H		0			(
NJ-0080	ENERGY CENTER HARRAH'S OPERATING COMPANY, INC.		Emergency Generator SMALL INTERNAL COMBUSTION ENGINE (<600 HP) - UNIT El 12	ULSD DIESEL OIL	201	HYR	UNIT FLI2 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS VEGAS, LIKE ALL THE OTHER DIESEL GENERATORS, THE UNIT IS SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36 HOURS PER YEAR RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE USED TO CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT REPEATED FURTHER FOR REPORTING THE BACT DETERMINATIONS.	THE UNIT IS EQUIPPED WITH A TURBOCHARGER.		LB/H		3 58	I.B/H		0.006) 7 I.B/HP-H	
			DIESEL EMERGENCY GENERATORS - UNITS CC009 THRU CC015 AT				THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY GENERATORS, EACH OF WHICH IS RATED AT 3.622 HORSEPOWER (HP). OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY AND TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE PRUPOSES ONLY. THE EMISSION LIMITS ARE BASED ON THE ATC	TURBOCHARGER AND GOOD									
	MGM MIRAGE	11/30/2009	EMERGENCY GENERATORS - UNITS LX024 AND LX025 AT	DIESEL OIL	362		PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006. THE TWO UNITS ARE DEDRIFICAL CATERPILLAR GENERATORS MODEL 512C. EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION ENGINER ARTE AT 2.206 HORSE POWER (HP). THE EMISSION LIMITS REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH UNIT IS ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO	COMBUSTION PRACTICES TURBOCHARGER AND GOOD COMBUSTION PRACTICES		LB/HP-H			LB/H			LB/HP-H	
	MGM MIRAGE OHIO RIVER CLEAN		EMERGENCY	DIESEL OIL DIESEL FUEL	2200		HOURS PER YEAR. 2922 MAXIMUM HORSE POWER SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60-4209(A) DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40	GOOD COMBUSTION PRACTICES		<u> LВ/НР-Н</u>				PER ROLLING 1:	2-	B LB/HP-H	FROM PART 89,
OH-0317 OH-0352	FUELS, LLC OREGON CLEAN ENERGY CENTER	6/18/2013	GENERATOR Emergency generator	OIL	292	HP KW	MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM Emergency diesel fired generator restricted to 500 hours of operation per rolling 12- months.	AND GOOD ENGINE DESIGN Purchased certified to the standards in NSPS Subpart IIII		LB/H LB/H			T/YR T/YR	MONTH PERIOD PER ROLLING 1: MONTHS		G/KW-H	SEE NOTES
OK-0118	HUGO GENERATING STA		Emergency generator EMERGENCY DIESEL INTERNAL COMBUSTION ENGINES		and the second			USE OF LOW SULFUR NO.2 FUEL OIL COMBINED WITH GOOD COMBUSTION PRACTICES AND LIMITED ANNUAL OPERATION	0		SEE NOTE	0					
OK-0128	MID AMERICAN STEEL ROLLING MILL		Emergency Generator	No. 2 diesel	120	НР			6.6	LB/H		1.65	T/YR		2.49	G/HP-H	
OK-0129	CHOUTEAU POWER PLANT CHOUTEAU POWER	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP) EMERGENCY FIRE	DIESEL LOW SULFUR	220	HP				LB/H		3.5	G/KW-H	NSPS			-
OK-0129	PLANT		PUMP (267-HP DIESEL)		26	HP			2.6	G/HP-H	NSPS	0					

		PERMIT															
		ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT		PROCESS NOTES	DESCRIPTION		UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	MOXIE LIBERTY	1							<u> </u>		1		i -				
	LLC/ASYLUM POWER																
PA-0278	PL T	10/10/2012	Emergency Generator	Diesel		0	The emergency generator will be restricted to operate not more than 100 hr/yr.		0.13	G/HP-H		0.4	2 LB/H		0.13	G/B-HP-H	
														12-MONTH			
	HICKORY RUN		EMERGENCY	Ultra Low sulfur										ROLLING			
*PA-0291	ENERGY STATION	4/23/2013	GENERATOR	Distillate	7.	8 MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		5.79	LB/H		0.2	9 T/YR	TOTAL	0		
			DIESEL GENERATOR														
	ML 35 LLC/PHILA		(2.25 MW EACH) - 5											12-MONTH			
*PA-0292	CYBERCENTER	6/1/2012	UNITS	#2 Oil		0	Engines are equipped with SCR and CO Oxidation catalyst	CO Oxidation Catalyst	3.5	G/KW-H		0.0	4 T/YR	ROLLING	0		
	ENERGY ANSWERS																
	ARECIBO PUERTO																
	RICO RENEWABLE		Emergency Diesel				Emergency Generator is rated at 670 BHP and is limited to 500 hr per year										
*PR-0009	ENERGY PROJECT	4/10/2014	4 Generator	ULSD Fuel oil # 2	2	0	(emergency and testing and maintenance, combined)		2.6	G/HP-H		3.8	6 LB/H		0		
			EN COR CENTORY				THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF										
	DV D		EMERGENCY	.			EIGHT (8) IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND	THE PARTY OF THE P									
	PYRAMAX CERAMICS,		GENERATORS 1 THRU				POLLUTANT INFORMATION IS FOR ONE SINGLE EMERGENCT	ENGINES MUST BE CERTIFIED TO									
SC-0113	LLC	2/8/2012	DIESEL EMERGENCY	DIESEL	75	7 HP	GENERATOR. THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR	COMPLY WITH NSPS, SUBPART IIII.	3.5	G/KW-H			0		0		
	GP ALLENDALE LP		GENERATOR	DIESEL.		0 HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR			LB/H			6 T/YR			G/HP-H	
SC-0114	GP ALLENDALE LP	11/25/2008	SIGENERATOR	DIESEL	140	0 HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR		3.03	LB/H		0.7	6 1/YR		0.98	G/HP-H	
							TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL									
							TESTING OR EMERGENC I FORFOSES.	BE PERFORMED AS OUTLINED IN	1								
			DIESEL EMERGENCY				THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF	THE GOOD MANAGEMENT									
SC-0115	GP CLARENDON LP	2/10/2000	GENERATOR	DIESEL.	140	0 HP	OPERATION PER YEAR.	PRACTICE PLAN.	2 02	LB/H		0.7	6 T/YR		0.08	G/HP-H	
30-0113	ARGOS HARLEYVILLE		EMERGENCY	DIESEL	140	0 111	OTERATION TER TEAR.	TRACTICE TEAN.	3.03	LIMI		0.7	OILLIK		0.76	O/111-11	
*SC-0132	PLANT		GENERATOR	DIESEL.	100	0 KW							اه		0		
*SD-0005	DEER CREEK STATION		Emergency Generator	Distillate Oil		0 Kilowatts			0				0		0		
							The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500										
							horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides										
							(NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited	1									
							hours of operation. Emissions from the engine shall not exceed 0.0218 grams per										
							horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52										
							hours per year of non-emergency operation.										
							Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide										
							(CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra	-									
							low sulfur diesel). The engine is limited to 52 hours per year of non-emergency										
							operation.										
							Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression	ı									
	PEONY CHEMICAL						Ignition Internal Combustion Engine and			1							
	MANUFACTURING	1	Emergency Diesel	1	1		40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For	Minimized hours of operations (50 hours)			1						
*TX-0728	FACILITY	4/1/2015	Generator	Diesel	150	0 hp	Stationary Reciprocating Internal Combustion Engines.	Tier II engine	0.0126	G/HP-H		0.	2 T/YR		0		
	MOUNDSVILLE	1		1	1			1			1						
II	COMBINED CYCLE		.[_	L	1		L		1 .	1							
*WV-0025	POWER PLANT CHEYENNE PRAIRIE	11/21/2014	Emergency Generator	Diesel	2015.	7 HP	Nominal 1,500 kW. Limited to 100 hours/year.		0				0		2.6	G/HP-HR	
	GENERATING		Diesel Emergency	Ultra Low Sulfur						1							
*XXX 0070	STATION	0/20/2017	Generator (EP15)	Diesel		9 hp		EPA Tier 2 rated	1				ا				
*WY-0070	STATION	8/28/2012	2 [Generator (£P15)	Diesei	8.3	y np	I .	EPA Her 2 rated	1 0	1	1	1	υĮ	1	1 0		I

		PERMIT							l		l						
RBLCID		ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AL-0318	TALLADEGA SAWMILL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel	0		Emergency Only					0			0		
			EMERGENCY GENERATORS														
	MIDWEST FERTILIZER		(EU014A AND EU-	DISTILLATE						G/HP-H	3 HOUR						
IN-0263	COMPANY LLC BATON ROUGE	3/23/2017	014B) Emergency Generators (2	OIL	3600	HP EACH	EQT0061 = 150 kW	GOOD COMBUSTION PRACTICES Comply with standards of NSPS Subpart	0.35	EACH	AVERAGE	500	H/YR EACH		0		
LA-0276	JUNCTION FACILITY	12/15/2016	units)	natural gas	0		EQT0062 = 65 kW	JJJ				0			0		
	HOLBROOK							Good combustion practices consistent with the manufacturer's recommendations to	n								
LA-0292	COMPRESSOR STATION	1/22/2016	Emergency Generators No. 1 & D. 2	Diesel	1341	HP		maximize fuel efficiency and minimize emissions	0.83	LB/HR	HOURLY MAXIMUM	0.04	TPY	ANNUAL MAXIMUM	0.28		
	ST. JAMES METHANOL		DEG1-13 - Diesel Fired Emergency Generator														
*LA-0312	PLANT	6/30/2017	Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	0.04	LB/HR		0			0		
LA-0313	ST. CHARLES POWER STATION		SCPS Emergency Diesel Generator 1	Diesel	2584	HP		Good combustion practices	27.34	LB/H	HOURLY MAXIMUM	6.84	T/YR	ANNUAL MAXIMUM	0		
LA-0316	CAMERON LNG		emergency generator	diesel	3353												
LA-0316	FACILITY	2/17/2017	engines (6 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII	1	1		0			0		+
							a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted				TEST PROTOCOL						
			EUEMENGINE (Diesel	L			to 4 hours/day, except during emergency conditions and stack testing, and 500				WILL SPECIFY	l .					
MI-0423	INDECK NILES, LLC	1/4/2017	fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	hours/year on a 12-month rolling time period basis. A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 201	Good combustion practices.	1.87	LB/H	AVG TIME	0			0		
			EUFPENGINE			1	or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUFPENGINE). Restricted to 1 hour/day, except				TEST PROTOCOL						
			(Emergency engine-diesel				during emergency conditions and stack testing, and 100 hours/year on a 12-month				WILL SPECIFY						
MI-0423	INDECK NILES, LLC	1/4/2017	fire pump)	Diesel	1.66	MMBTU/H	rolling time period basis. A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model	Good combustion practices	0.64	LB/H	AVG TIME	0			0		
	MEC NORTH, LLC AND		EUEMENGINE (North Plant): Emergency				year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel										
*MI-0433	MEC SOUTH LLC	6/29/2018	Engine	Diesel	1341	HP	particulate filter.	Good combustion practices.	0.86	LB/H	HOURLY	0			0		
			EUEMENGINE (South				A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to										
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	Plant): Emergency	ro: 1	1341	III	be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	0 1 1 2 2		LB/H	HOURLY						
*MI-0433	BELLE RIVER	6/29/2018		Diesei	1341	HP	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later	Good combustion practices	0.80	LB/H	HOURLY	1			1		
*MI-0435	COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel	2	MW	and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	State of the art combustion design.	1.89	LB/H	HOURLY	0			0		
	BEAUMONT		EMERGENCY					Equipment specifications and good									
TX-0799	TERMINAL	6/8/2016	ENGINES	diesel	0			combustion practices. Operation limited to 100 hours per year.	0.0025	LB/HP-HR		0			0		
			DIESEL-FIRED EMERGENCY														
*VA-0325	GREENSVILLE POWER STATION		GENERATOR 3000 kW	DIESEL FUEL						4 G/KW	PER HR						
*VA-0325	STATION	6/17/2016	PROPANE-FIRED	DIESEL FUEL	0			Good Combustion Practices/Maintenance	6.4	I G/KW	PER HR	0			0		
	GREENSVILLE POWER		EMERGENCY GENERATORS 150 kW														
*VA-0325	STATION	6/17/2016	(2)	PROPANE	0			Good combustion practices	1	G/HP-H	PER HR	0			0		
VA-0327	PERDUE GRAIN AND OILSEED, LLC	7/12/2017	Emergency Generator	Diesel	0		760 bhp engine		0.49	LB/HR		0			0		
	POINT THOMSON PRODUCTION		Remote Incinerator	Ultra Low Sulfur													
*AK-0082	FACILITY POINT THOMSON	1/23/2015	Generator Engine	Diesel	102	hp	102 hp ULSD-fired existing, small, remote Waste Incinerator		3	LB/TON		0			0		
	PRODUCTION		Emergency Camp	Ultra Low Sulfur													
*AK-0082	FACILITY POINT THOMSON	1/23/2015	Generators	Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.	no add on controls	0.0007	LB/HP-H		0			0		
*AK-0082	PRODUCTION FACILITY	1/22/2015	Airstrip Generator Engine	Ultra Low Sulfur	490	hn	One 490 hp Airstrip Generator Engine		0.000	LB/HP-H							
- AK-0082	POINT THOMSON	1/23/2015	Ausulp Generator Engine		490	пр	One 490 up Austrip Generator Engine		0.0025	LB/HP-H		1 0			1 0		
*AK-0082	PRODUCTION FACILITY	1/23/2015	Agitator Generator Engine	Ultra Low Sulfur Diesel	98	hp	ULSD-fired 98 hp Agitator Generator Engine		0.0025	LB/HP-H		0			0		
	POINT THOMSON PRODUCTION		Incinerator Generator	Ultra Low Sulfur													
*AK-0082	FACILITY	1/23/2015	Engine Cenerator	Diesel	102	hp	ULSD-fired 102 hp Incinerator Generator Engine		0.0025	LB/HP-H		0			0		
	POINT THOMSON PRODUCTION		Bulk Tank Generator	Ultra Low Sulfur		1											
*AK-0082	FACILITY HILLABEE ENERGY	1/23/2015	Engines EMERGENCY	Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		0.0007	LB/HP-H	1	0			0		
AL-0251	CENTER CENTER	9/24/2008	GENERATOR	DIESEL	600	EKW		GOOD COMBUSTION PRACTICES				0			0		
								Use of good combustion practices, based									
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	10/27/2011	E	Diesel	580	Im	MAN D-2842 LE model engine	on the current manufacturer's specifications for this engine	0.00	3 T/YR	12-MONTH ROLLING	0.04	G/HP-H				
*FL-0328	DRILLING PROJECT	10/27/2011	Emergency Engine	Diesei	580	nr	INIAN D-2042 LE model engine		0.03	JI/YK	KULLING	0.94	G/HP-H		1 0		
						1		Use of good combustion practices based on the current manufacturer's									
						1		specifications for these engines, use of			PER YEAR 12						
			Emergency Generator			1		low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler,			MONTH						
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Diesel Engine - Development Driller 1	Diesel	2229	hp		high pressure fuel injection with aftercooler	0.04	T/YR	ROLLING TOTAL	0					
11-0336	DRILLING PROJECT	3/30/2012	Development Diniel I	Diesei	2229	Tub		ancicooid	0.04	7 1 / 1 K	ITOTAL	- 0			1 0		

			PERMIT		1						1				1	1		
Part Part	RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT		PROCESS NOTES			UNIT	AVG TIME CONDITION		UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
## AND TRANSPORT OF THE PROPERTY OF THE PROPER									II									
Processor Proc									on the current manufacturer's									
Section Control Cont												DED VE 4 D 12						
Company Comp				Emergency Generator														
March Marc				Diesel Engine - C.R.					high pressure fuel injection with			ROLLING						
Application Company	FL-0338	DRILLING PROJECT	5/30/2012	Luigs	diesel	2064	1 hp	Caterpillar D3516A 1998	aftercooler	0.04	T/YR	TOTAL	0			0		
Part Part									Use of good combustion practices based									
ConfigNormal Conf																		
Property Property				Main Propulsion				Four 1998 Wartsila 18V32LNE 9910 hn and Two 1998 Wartsila 12V32LNE 6610				ROLLING 24						
According Acco	FL-0347		9/16/2014	Generator Diesel Engines	Diesel	9910	hp	hp		0.35	G/KW-H		0			0		
March Marc									Use of good combustion practices based									
Company Comp									on the most recent manufacturer's									
Property Property																		
Part Part	FI -0347		9/16/2014	Emergency Diesel Engine	Diesel	3300	hp	1998 Wartsila 6R 32I NF		1 (,							
ACCOUNTY COUNTY	12 0317	LOGIA	2/10/2011	Emergency Dieser Englis	Dieses	3300	149	1770 Watchia OKOZENIO		<u> </u>	1					,		
Part Part		ANIADARKO																
Column C		PETROLEUM		Remotely Operated		1												
Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Pa		CORPORATION -		Vehicle Emergency	L			L	turbocharger, aftercooler, and high									
MARCINA 1997 MARC	FL-0347	EGOM	9/16/2014	Generator	Diesel	427	7 hp	2004 Cummins QSM11-G2NR3	injection pressure	+	1	AVERAGE OF	0		1	1 0	-	
THE COLOR THE						1						THREE (3) 1-H						
THE SHOWN PARKENNY GENERATORS ARE RENO NOTALLD LIGHT STREET AS A PARKEN	A-0084	ADM POLYMERS	11/30/2006	GENERATOR	DIESEL FUEL	74.3	GAL/H	1,502 BHP	GOOD COMBUSTION PRACTICES	4.8	GAL/B-HP-F	I TEST RUNS	3.97	T/YR	MONTH TOTAL	- 0		
THE CALL OF CORRESPONDED TO MAKE CALL OF CALL OF CORRESPONDED TO MAKE CALL OF CORRESPONDED TO MAKE CALL OF CORRESPONDED TO MAKE CALL OF CALL OF CORRESPONDED TO MAKE CALL OF CALL OF CORRESPONDED TO MAKE CALL OF CALL O						1			TECHNOLOGY IS SPECIFED.									
A. A. A. P									ENGINE IS REQUIRED TO MEET									
SOURCEST SOURCEST																		
AMACONS AMAC								577-P THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2.00	REQUIRE ANY NUMBER OF									
LAMPS								KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR	CONTROL TECHNOLOGIES AND									
THE ALVIEW SAME CONTROL SAME C			C 20.0 10.0 0 10.0 10.0 10.0 10.0 10.0 10		PARAMA													
MODIFICATION MODI	A-0088		6/29/2007	GENERATOR	DIESEL	1500	KW .	LIMITS AND DIFFERENT TON/YK BACT LIMITS.	BACT STANDARD.	0.3	G/HP-H		0.33	1/YK		1 0		
Description Description		INDGREDIENTS										THREE STACK			ROLLING			
1000 1000	A-0095	AMERICAS, INC.	9/19/2008	GENERATOR	DIESEL	700	KW			0.2	G/KW-H		0.08	T/YR	TOTAL	0		
COMPANY 100-2002		IOWA FERTILIZER																
NTROGRA LICE 172-701 TRUBE (1) TRU	A-0105		10/26/2012	Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	0.4	G/KW-H	RUNS	0.44	T/YR	MONTH TOTAL	0		
ORT. NELL STRINGEN 1972 1982															ROLLING			
MACHING CALCES MACH																		
LANGELY CHIEF LANGE OF CHARGE NAME LANGE OF CHARGE OF CHARGE LANGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE OF CHARGE LANGE OF CHARGE OF	IA-0106	COMPLEX	7/12/2013	Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices	4	G/KW-H	RUNS	0.31	T/YR	MONTH TOTAL	0		
DOUBLE SOUTH CATE SOUTH SOUT		LANGLEY GULCH		EMERGENCY														
Fig. 1	D-0018	POWER PLANT	6/25/2010	GENERATOR ENGINE	DIESEL	750	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	(GCP)	6.4	G/KW-H	NOX+NMHC	0			0		
ST. DSPH ENGRY 123-2016 DESCR. CONTROLS 100 (SPEC. CONTROLS	TI -0114		9/5/2014	Emergency Generator	distillate fuel oil	3754	HP		Tier IV standards for non-road engines at 40 CFR 1039 102 Table 7	0.4	G/KW-H							
ST. ASSEMILECT 122-2012 DRESE, GENTRATIONS DRESEL 1006 PP EACH EQC, EVILANS THROUGH YNC) YEARLY 0	ar orre		7/3/2011		distribute ruce on	3733	111				GACH II		T T			,		
#N-0158 CENTER LICE 1293/201 GENERATOR DIESEL CENTER LICE 1293/201 GENERATOR DIESEL DESERVITABLE PRODUCTION OF CENTER LICE 1293/201 GENERATOR DIESEL DESERVITABLE PRODUCTION OF CENTER LICE 1293/201 GENERATOR DIESEL DESERVITABLE PRODUCTION OF CENTER LICE 1293/201 GENERATOR NO. 2 DIESEL DIES	DI 0150		12/2/2012		DIEGEI	100	IID E ACH			1.00	I DAI		500	OPERATIO	VEADLY			
## 0.55 ST. POSPH INERGY 12-2075 CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR ESSEN CONTINUS 10 IBH 3 HOURS 500 VERBLY 0 ***ST. OSPH INERGY 12-2075 CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IP EVALUATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IN EVALUATE STATES THROUGH ONE (1) IVEXT CORRESTOR OF BEEL 2012 IN EVALUATE STATES 2012 IN EVALUATE STATES 2012 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2013 IN EVALUATE STATES 2014 IN EVALUATE STATES	IN-0158	CENTER, LLC	12/3/2012	DIESEL GENERATORS	DIESEL	1000	HPEACH	EG02, EXHAUST THROUGH TWO (2) VENTS.	AND USAGE LIMITS	1.04	LB/H		500	HOURS OF	YEARLY	-		
ST. JOSEPH ENEGRY 12/2002 TANKS SO GALLONS EACH THE TWO (2) TANKS ARE IDENTIFIED AS TK07 AND TK08 PRACTICES O O O O O		ST. JOSEPH ENEGRY		EMERGENCY DIESEL				THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03,	COMBUSTION DESIGN CONTROLS					OPERATIO				
ST. DSEPH LENGRY GINERATOR U.S.D SPORTATING GOOD DESIGN AND OPERATING ST. DSEPH ENGRY LENGRAND L	IN-0158	CENTER, LLC	12/3/2012	GENERATOR EMERGENCY	DIESEL	2012	2 HP	EXHAUSTS THROUGH ONE (1) VENT.	AND USAGE LIMITS	1.04	LB/H	3 HOURS	500	N	YEARLY	- 0		
#N-0158 CENTER, LLC 12-20/20 [TANK SEPENTATION 10 10 10 10 10 10 10 1				GENERATOR ULSD														
ST. JOSEPH RINGRY GENERATOR ULSD ST. JOSEPH RINGRY 12/3002 TANK 300 CALLONS THIS TANK IS IDENTIFIED AS TK-50 AND FUEL SPECIFICATION 0 0 0	IN-0158	CENTER, LLC	12/3/2012	TANKS		550	GALLONS EACH	THE TWO (2) TANKS ARE IDENTIFIED AS TK07 AND TK08	PRACTICES				0			0		
#N-0175 CENTER, LLC 12/2/2012 TANK 300 GALLONS THIS TANK IS IDENTIFIED AS TKS0 AND FUEL SPECIFICATION 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ST. JOSEPH ENEGRY							GOOD CUMBUSTION PRACTICE									
MDWEST FERTILIZER EMERGENCY ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. GOOD COMBUSTION PRACTICES 0.31 GHP-H 3-HR AVERAGE 0 0 0 0 0 0 0 0 0	IN-0158		12/3/2012	TANK		300	GALLONS	THIS TANK IS IDENTIFIED AS TK50		(0			0		
**N-0173 CORPORATION 64/2014 GENERATOR NO. 2, DIESEL 3600 BHP INSIGNIFICANT ACTIVITY WILL NOT BE TESTED. GOOD COMBUSTION PRACTICES 0.31 GHP-H 3-HR AVERAGE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		MIDWEST FERTILIZED						ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS										
DIESEL FIRED BURREGENCY 120 1400 1	IN-0173		6/4/2014	GENERATOR	NO. 2, DIESEL	3600	BHP		GOOD COMBUSTION PRACTICES	0.31	G/HP-H	3-HR AVERAGE	0			0		
**NO.179 RESOURCES, LLC 9.525.03 GENERATOR NO. 2 FUEL OIL 4690 B-HP ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS. GOOD COMBUSTION PRACTICES 0.3 GHP-H 3-HR AVERAGE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
EMERGENCY GENERATIORS (DOCK Assumption No. 1 1227/2006 (21-08 Assumption No. 1 1227/2006 (21	IN-0179	RESOURCES, LLC	9/25/2013	GENERATOR	NO. 2 FUEL OIL	4690	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.31	G/HP-H	3-HR AVERAGE	0			0		
Addition Addition				EMERGENCY				21-08: 1341 HP										
LA-021 GARVYLLE REFINEY 1227/2006 C21-08 kampe; 22-08 DISSLE MERGENCY CEPOLE TRAIL LNG CEPOLE						1		22-08: 0/1 HP	USE OF DIESEL WITH A SULFUR			ANNUAL.						
CREOLE TRAIL LNG	.A-0211	GARYVILLE REFINERY	12/27/2006	(21-08 & amp; 22-08)	DIESEL			GENERATORS PERMITTED FOR 182 H/YR EA.		0.0025	LB/HP-H		0			0		
LA-0219 MPORT TERMINAL 8/15/2007 Rump; 2 DIESEL 2168 HP EACH AND GOOD ENGINE DESIGN 1.67 LBH MAXIMUM 0.42 TVR MAX		CREOLE TRAIL LNG		GENERATOR NOS 1					GOOD COMBUSTION PRACTICES			HOURIV			ANNIJAT			
NINEMILE POINT ELECTRIC EMERGENCY DIESEL LA-0254 GENERATING PLANT 8/16/2011 GENERATOR DIESEL 1250 HP ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES 1 GHP-H AVERAGE 0 ANNUAL AMMONIA PRODUCTION PRODUCTION 1-LA-0272 FACILITY 3/27/2013 GENERATOR (2205-B) DIESEL 1200 HP OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR. good combustion practices. 0 ULTRA LOW ULTRA LOW ULTRA LOW ULTRA LOW ULTRA LOW ULTRA LOW ULTRA LOW DESCRIPTION PRACTICES, AND COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES. 0 COMBISTION PRACTICES, AND COMBISTION PRACTICES. 0 COMBISTI	.A-0219		8/15/2007		DIESEL	2168	HP EACH			1.67	LB/H		0.42	T/YR		0		
LA-0254 GENERATING PLANT 8/16/2011 GENERATOR DIESEL 1250 HP GOOD COMBUSTION PRACTICES 1 GHP-H AVERAGE 0 1 GHP-H AVERAGE AVERAGE 1 GHP-H		NINEMILE POINT								1								
AMMONIA PRODUCTION BEREGENCY DIESEL *LA-0272 FACILITY 3.27/2013 GENERATOR (2205-18) DIESEL 1200 HP OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/VR. good combustion practices. ULTRA LOW ULTRA	A-0254		8/16/2011	EMERGENCY DIESEL GENERATOR	DIESEL.	1250	HP		GOOD COMBUSTION PRACTICES	,	G/HP-H	ANNUAL AVERAGE				,	G/HP-H	ANNUAL AVERAGE
*LA-0272 FACILITY 3.27/2013 GENERATOR (2205-18) DIESEL 1200 HP OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/VR good combustion practices. 0 0 0 6.4 G/KW-HR NO: USE ONLY USED, GOOD COMBUSTION PRACTICES, AND COMPUSTION PRACTICES, AND COMPUSTION PRACTICES, AND COMPUSTION PRACTICES, AND COMBINED NOX COMBINED NOX COMBINED NOX		AMMONIA				12.50	1			T			1		1	1		
ULTRA LOW COVE POINT LNG EMERGENCY SULFUR 40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD DESIGNED TO ACHIEVE EMISSION COMBINED NOX COMBINED NOX COMBINED NOX	II A 0272		2/27/2012	EMERGENCY DIESEL	DIEGEI	1000	III	OBED A TIME OF CENER ATOR IS I DATED TO 500 UP AVE		1 .	J					1	CAVW HP	NOX + NMHC
ULTRA LOW COMBUSTION PRACTICES, AND COMBUSTION PRACTICES, AND COMBINED NOX COMBINED NOX COMBINED NOX COMBINED NOX	LA-02/2	FACILITY	3/2 //2013	GENERATOR (2205-B)		1200	nr	OFERATING TIME OF GENERATOR IS LIMITED TO 300 HR/YR.	USE ONLY ULSD, GOOD	1	1		0			6.4	G/KW-HK	NOA + NMHC
COVE POINT LNG EMERGENCY SULFUR 40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD DESIGNED TO ACHIEVE EMISSION COMBINED NOX C								<u></u>	COMBUSTION PRACTICES, AND									
BILPORT LEASINGL 0.72-017 CLASSICAL 1330 IT COMBUSTION FARCILLES LIMIT 4.5 CLASSICAL 1.5 MIRC 0.4 UNIVERSITY 1.5 MIRC 0.4 UN	MD 0044	COVE POINT LNG	6/0/2014			1556	LIB	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD		1	C/UP U			C/VW II		1		
	MD-0044	LLAMINAL	0/9/2014	OLNERATUK	PIESEL	1550	eline.	COMBOSTION FRACTICES	Livil	1 4.8	дупг-Н	- NMHC	6.4	G/KW-H	1. NWIEC		1	1

		PERMIT							1			1		1			
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
							THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF										
	FAIRBAULT ENERGY	C 18 19 0 0 18	EMERGENCY				THE 670 HP GENERATOR (LISTED AS A ' ' IC ENGINE, LARGE	,			3 HOUR	1 .					
MN-0071	PARK WOODBRIDGE	6/5/2007	GENERATOR	NO. 2 Ultra Low Sulfur	175	KW	FUEL OIL) IN MN-0053 The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with		0.0007	LB/HP-H	AVERAGE	- ()		0	1	
NJ-0079	ENERGY CENTER	7/25/2012	Emergency Generator	distillate Diesel	10	H/YR	15 ppm % Sulfur by weight only	Use of ULSD oil	0.49	LB/H					0		
	HESS NEWARK											1 .					
NJ-0080	ENERGY CENTER	11/1/2012	Emergency Generator	ULSD	200	H/YR	UNIT FL12 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS	use of ULSD, a low sulfur clean fuel	2.62	LB/H		+ ()		1	1	
							VEGAS. LIKE ALL THE OTHER DIESEL GENERATORS, THE UNIT IS										
							SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36 HOURS PER YEAR										
			SMALL INTERNAL				RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE USED TO										
			COMBUSTION ENGINE				CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL										
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	(<600 HP) - UNIT FL12	DIESEL OIL	530	HP	GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT REPEATED FURTHER FOR REPORTING THE BACT DETERMINATIONS.	THE UNIT IS EQUIPPED WITH A TURBOCHARGER.	0.0025	LB/HP-H		1.34	LB/H		0.0025	LB/HP-H	
							THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY										
			DIESEL EMERGENCY				GENERATORS, EACH OF WHICH IS RATED AT 3,622 HORSEPOWER (HP). OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY										
			GENERATORS - UNITS				AND TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE										
			CC009 THRU CC015 AT				PRUPOSES ONLY. THE EMISSION LIMITS ARE BASED ON THE ATC	TURBOCHARGER AND GOOD									
NV-0050	MGM MIRAGE	11/30/2009	CITY CENTER	DIESEL OIL	362	HP	PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006. THE TWO UNITS ARE IDENTICAL CATERPILLAR GENERATORS MODEL	COMBUSTION PRACTICES	0.0003	LB/HP-H		0.93	LB/H		0.0003	LB/HP-H	
	1			1			3512C. EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION										
	1			1			ENGINE RATED AT 2,206 HORSE POWER (HP). THE EMISSION LIMITS										
			EMERGENCY GENERATORS - UNITS				REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH UNIT IS										
			LX024 AND LX025 AT				ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO	TURBOCHARGER AND GOOD									
NV-0050	MGM MIRAGE	11/30/2009	LUXOR	DIESEL OIL	220	HP	HOURS PER YEAR. 2922 MAXIMUM HORSE POWER	COMBUSTION PRACTICES	0.0003	LB/HP-H		0.71	LB/H		0.0003	LB/HP-H	
							2922 MAXIMUM HORSE POWER										
							SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-RESETTABLE										
							HOUR METER PRIOR TO STARTUP PER 40 CFR 60.4209(A)										FOR NMHC ANI
							DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND										NOX
	OHIO RIVER CLEAN		EMERGENCY	DIESEL FUEL			60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40							PER ROLLING 12	4		COMBINED, 5%
OH-0317	FUELS, LLC OREGON CLEAN	11/20/2008	GENERATOR	OIL	292	HP	MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	AND GOOD ENGINE DESIGN Purchased certified to the standards in	1.39	LB/H		0.35	T/YR	MONTH PERIOD PER ROLLING 12		G/KW-H	NMHC
*OH-0352	ENERGY CENTER	6/18/2013	Emergency generator	diesel	225	KW	Emergency diesel fired generator restricted to 500 hours of operation per rolling 12- months.	NSPS Subpart IIII	3.93	LB/H		0.98	T/YR	MONTHS	1 0		SEE NOTES
			EMERGENCY DIESEL					USE OF LOW SULFUR NO.2 FUEL									
	HUGO GENERATING		INTERNAL COMBUSTION					OIL COMBINED WITH GOOD COMBUSTION PRACTICES AND									
OK-0118	STA	2/9/2007	ENGINES					LIMITED ANNUAL OPERATION	0		SEE NOTE	(0		
OK-0128	MID AMERICAN STEEL ROLLING MILL	0/9/2009	Emergency Generator	No. 2 diesel	120	HP			0.77	LB/H		0.16	T/YR		2.07	G/HP-H	
OK-0128	CHOUTEAU POWER	9/6/2006	EMERGENCY DIESEL		120) nr			0.77	LD/H		0.13	1/1K		2.07	G/nr-n	
OK-0129	PLANT	1/23/2009	GENERATOR (2200 HP)	DIESEL	220	HP		GOOD COMBUSTION	1.55	LB/H		-			0	4	
PA-0271	MERCK & CO. WESTPOINT	2/23/2007	MOBILE EMERGENCY GENERATOR	DIESEL.					0.32	G/HP-H		0.4	T/YR		#DIV/0!		
174-02/1	MOXIE LIBERTY	2/23/2007	GENERATOR	DIESEL					0.32	G/III-II		- 0	1/110		#DIV/0:		
	LLC/ASYLUM POWER			L													
PA-0278	PL T	10/10/2012	Emergency Generator	Diesel)	The emergency generator will be restricted to operate not more than 100 hr/yr.		0.01	G/HP-H		0.03	LB/H 12-MONTH		#DIV/0!		
	HICKORY RUN		EMERGENCY	Ultra Low sulfur									ROLLING				
*PA-0291	ENERGY STATION	4/23/2013	GENERATOR	Distillate	7.3	MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)	Is certified by the manufacturer to meet	0.7	LB/H	-	0.03	TOT	-	69.78346154	-	
	ENERGY ANSWERS			1				the emission standards									
	ARECIBO PUERTO						L	required by 40 CFR Part 89, Subpart B									
*PR-0009	RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # :	,	,	Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)	Table 1 for non-road compression ignition engines.	0.15	G/HP-H		0.25	LB/H		#DIV/0!		
. K-000)	E-LEGI I ROJECI	4/10/2014	Scholator	CLOD FUCION #	1			PURCHASE OF CERTIFIED	0.13	G/111-11		0.22	1		#DIV/0:		
	NUMBER OF THE PROPERTY OF THE		THE STREET OF LOTH THE !	1			THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF	ENGINES. HOURS OF OPERATION									
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	EMERGENCY ENGINE 1 THRU 8	DIESEL	21	HP	EIGHT (8) IDENTICAL EMERGENCY ENGINES. THIS PROCESS AND POLLUTANT INFORMATION IS FOR ONE SINGLE ENGINE.	LIMITED TO 100 HOURS FOR MAINTENANCE AND TESTING.	7.5	G/KW-H		1	,			,	
		2.0.2012			1		THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF		1			1					
	PYRAMAX CERAMICS,		EMERGENCY GENERATORS 1 THRU	1			EIGHT (8) IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND	PURCHASE ENGINES CERTIFIED TO	J								
SC-0113	LLC	2/8/2012	8	DIESEL	75	HP	POLLUTANT INFORMATION IS FOR ONE SINGLE EMERGENCT GENERATOR.	COMPLY WITH NSPS, SUBPART IIII.		G/KW-H		1	,			,	
			DIESEL EMERGENCY				THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR					1					
SC-0114	GP ALLENDALE LP	11/25/2008	GENERATOR	DIESEL	1400	HP	TESTING OR EMERGENCY PURPOSES. THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR		0.32	LB/H		0.08	T/YR	-	1.04	G/HP-H	
	1			1			TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL	.								
	1		DATE OF THE OWNER OWNER OW	1				BE PERFORMED AS OUTLINED IN									
SC-0115	GP CLARENDON LP	2/10/2009	DIESEL EMERGENCY GENERATOR	DIESEL	140	HP	THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF OPERATION PER YEAR.	THE GOOD MANAGEMENT PRACTICE PLAN.	0.32	LB/H		0.08	T/YR		1.04	G/HP-H	
	ARGOS HARLEYVILLE		EMERGENCY				The state of the s	The second second	0.32		1	0.00			1.04		
*SC-0132	PLANT	12/14/2007	GENERATOR	DIESEL	100	KW		BACT HAS BEEN DETERMINED TO	0			-			- 0	-	
	1		EMERGENCY	1			(2) 1,000 KW EMERGENCY GENERATORS THAT ARE OPERATED A	BE COMPLIANCE WITH NSPS,									
			GENERATORS, GEN1,				TOTAL OF 100 HOURS PER YEAR OR LESS FOR TESTING AND	SUBPART IIII, 40 CFR60.4202 AND 40)								
SC-0159	US10 FACILITY	7/9/2012	GEN2	DIESEL	100	KW	MAINTENANCE.	CFR60.4205.	6.4	G/KW-H		(1	1	1 0	l l	

7															
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE		PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT		CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	STANDARAD EMISSION LIMIT	AVG TIME CONDITION
	PEONY CHEMICAL MANUFACTURING		Emergency Diesel												
*TX-0728	FACILITY	4/1/2015	Generator	Diesel	1500	hp	Stationary Reciprocating Internal Combustion Engines.	engine	0.7	LB/H		0.02	T/YR	0	
	MOUNDSVILLE														
	COMBINED CYCLE														
*WV-0025	POWER PLANT	11/21/2014	Emergency Generator	Diesel	2015.1	HP	Nominal 1,500 kW. Limited to 100 hours/year.		1.24	LB/H		0	1	0	

Table D-D-4 Particulate Matter (PM) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			Black Start and		- AMOCOMI CI			I I I I I I I I I I I I I I I I I I I		U.1.1	1		U1	John Jillion		0.114	JO. DITION
	DONLIN GOLD		Emergency Internal				Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency	Clean Fuel and Good Combustion			3-HOUR						
AK-0084	PROJECT	6/30/2017	Cumbustion Engines 250 Hp Emergency CL	Diesel	1500	kWe	diesel generators.	Practices	0.2	5 G/KW-HR	AVERAGE		0			0	
*AT -0318	TALLADEGA SAWMILL	12/18/2017	250 Hp Emergency CI, Diesel-fired RICE	Diesel			Emergency Only			0			0			0	
1112 0310	OKEECHOBEE CLEAN		Three 3300-kW ULSD	Dieses						1			1			•	
FL-0356	ENERGY CENTER	3/9/2016	emergency generators	ULSD	0		BACT limits equal to NSPS Subpart IIII limits. Will use IIII certified engine.	Use of clean fuel	0.	2 G/KW-HR			0			0	
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	Two 3300 kW emergency	ULSD			Two ULSD-fueled emergency engines. BACT = Subpart IIII limits.	Clean fuel		GRAMS 2 PER KWH							
*FL-0303	ENERGY CENTER	12/4/201/	generators EMERGENCY	ULSD			Two ULSD-rucied emergency engines. BAC1 = Subpart IIII limits.	Clean ruei	0.	Z PER KWH			0			U	
			GENERATORS														
	MIDWEST FERTILIZER		(EU014A AND EU-	DISTILLATE						G/HP-H	3 HOUR						
N-0263	COMPANY LLC	3/23/2017		OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	0.1	5 EACH	AVERAGE	50	0 H/YR EACI	TEST		0	
			Emergency Diesel Generator Engine					Certified engines, good design, operation			TEST PROTOCOL			PROTOCOL			
	GRAYLING		(EUEMRGRICE in				One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in	and combustion practices. Operational			WILL SPECIFY			WILL SPECIFY			
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	500	H/YR	FGRICE).	restrictions/limited use.	1.4	1 LB/H	AVG TIME	0.	2 G/KW-H	AVG TIME		0	
							a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine				TEST						
							manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted				PROTOCOL						
			EUEMENGINE (Diesel				to 4 hours/day, except during emergency conditions and stack testing, and 500	Good combustion practices and meeting			WILL SPECIFY						
MI-0423	INDECK NILES, LLC	1/4/2017		Diesel Fuel	22.68	MMBTU/H	hours/year on a 12-month rolling time period basis.	NSPS Subpart IIII requirements.	0.	2 G/KW-H	AVG TIME		0			0	
							A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011										
			EUFPENGINE				or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUFPENGINE). Restricted to 1 hour/day, except				TEST PROTOCOL						
			EUFPENGINE (Emergency engine-diesel	ıl			back up during an emergency (EUFPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month	Good combustion practices and meeting			WILL SPECIFY						
MI-0423	INDECK NILES, LLC	1/4/2017	fire pump)	Diesel	1.66	MMBTU/H	rolling time period basis.	NSPS Subpart IIII requirements.	0.1	5 G/BHP-H	AVG TIME.		0		I .	0	
			EUEMRGRICE1 in		1.00			Certified engines, good design, operation	0.1	T	TEST			TEST			
	GRAYLING		FGRICE (Emergency	L			One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in	and combustion practices. Operational			PROTOCOL	.1		PROTOCOL			
MI-0425	PARTICLEBOARD	5/9/2017	diesel generator engine)	Diesel	500	H/YR	FGRICE).	restrictions/limited use.	0.6	6 LB/H	SHALL SPECIFY	0.	2 G/KW-H	SHALL SPECIFY	-	0	1
			EUEMRGRICE2 in			1		Certified engines, good design, operation	1		TEST	1		TEST			
	GRAYLING		FGRICE (Emergency			1	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in	and combustion practices. Operational	1		PROTOCOL	1		PROTOCOL			
MI-0425	PARTICLEBOARD	5/9/2017	Diesel Generator Engine)	Diesel	500	H/YR	FGRICE)	restrictions/limited use.	0.2	2 LB/H	SHALL SPECIFY	0.	2 G/KW-H	SHALL SPECIFY		0	
							A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model										
	MEC NORTH, LLC AND		EUEMENGINE (North				year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII									
*MI-0433	MEC SOUTH LLC	6/29/2018	Plant): Emergency	Discal	1341	шр	particulate filter.	requirements.		2 G/KW-H	HOURLY		ما		l .	0	
0733	DOOLII EEC	3/2//2018			1341		A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year		1	- Corne 17-11	THE STATE OF THE S		1			1	
			EUEMENGINE (South				of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to	Diesel particulate filter, good combustion									
	MEC NORTH, LLC AND		Plant): Emergency				be compliant with Tier IV emission standards. Equipped with a diesel particulate	practices and meeting NSPS IIII									
*MI-0433	MEC SOUTH LLC BELLE RIVER	6/29/2018	Engine	Diesel	1341	HP	filter. A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later	requirements.	0.	2 G/KW-H	HOURLY		0		1	0	
	COMBINED CYCLE		EUEMENGINE:				and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified										
*MI-0435	POWER PLANT	7/16/2018	Emergency engine	Diesel	2	MW	engine subject to NSPS IIII.	State of the art combustion design	0.	2 G/KW-H	HOURLY		0			0	
	PSEG FOSSIL LLC																
	SEWAREN GENERATING		D' IE' IE					use of ULSD a clean burning fuel, and									
NJ-0084	STATION	2/10/2016	Diesel Fired Emergency Generator	ULSD	44	H/YR		limited hours of operation	0.2	6 LB/H			ما		l .	0	
13-0004	STATION	3/10/2010	Generator	OLSD		IDIK	(2) 1500 kW emergency diesel genset. Emission limitations are for each genset and	innica ious of operation	0.2	O LIBIT						0	
	CPV FAIRVIEW		Emergency Generator				fuel is restricted to ULSD (15 ppm) and each is restricted to 100 hrs on a 12-month										
*PA-0310	ENERGY CENTER	9/2/2016	Engines	ULSD	0		rolling basis.		0.1	5 G/BHP-HR			0		_	0	
	INTERNATIONAL STATION POWER		Caterpillar 3215C Black								INSTANTANEOU	т					
AK-0071	PLANT	12/20/2010	Start Generator (1)	ULSD	1500	KW-e		Good Combustion Practices	0.0	3 G/HP-H	S	1	0		I .	0	
	HILLABEE ENERGY		EMERGENCY														
AL-0251	CENTER	9/24/2008	GENERATOR	DIESEL	600	EKW		LOW SULFUR DIESEL FUEL	1	0		1	0	1	-	0	1
	NUCOR STEEL		DIESEL FIRED EMERGENCY														
*AL-0301	TUSCALOOSA, INC.	7/22/2014	GENERATOR	DIESEL	800	HP			0.000	7 LB/HP-H			0			0	
					800	1		OPERATIONAL RESTRICTION OF 50	0.000			1	1	1	1		1
	VICTORVILLE 2							HR/YR; USE OF ULTRA LOW									
	HYBRID POWER PROJECT	2/11/2010	EMERGENOV ENGRE	DIEGEI	****	WW.	2000 FW (2 (02 L)	SULFUR FUEL NOT TO EXCEED 15	1 .	2 CHANGE		1	e Camp II			ا	
CA-1191	PROJECT PALMDALE HYBRID	3/11/2010	EMERGENCY ENGINE EMERGENCY IC	DIESEL	2000	KW	2000 KW (2,683 hp) engine	PPMVD FUEL SULFUR	0.	2 G/KW-H	1	0.1	5 G/HP-H		<u> </u>	U	1
CA-1212	POWER PROJECT	10/18/2011		DIESEL	2683	HP	UNIT IS 2000 KW.	USE ULTRA LOW SULFUR FUEL	0.	2 G/KW-H		0.1	5 G/HP-H			0	
							Two emergency generators, each rated at 2,000 kW, will be installed to provide										
						1	backup electrical power in the event of a power outage at the SRF facility. The engines will fire ULSD fuel oil or propane and each will be limited to 500 hours per		1			1					
							year of operation during emergencies. Each unit will be operated no more than 100										
	SWEET SORGHUM-TO-					1	hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII.		1			1					
	ETHANOL ADVANCED		Emergency Generators,				Each engine will be designed to meet USEPA's emission standards listed in 40										
FL-0322	BIOREFINERY	12/23/2010	Two 2682 HP EA	ULSD	0	-	CFR Part 60 Subpart IIII for model year 2006 or later.		0.	2 G/KW-H			0			0	
						1		Use of good combustion practices, based	1			1					
	ENI - HOLY CROSS							on the current manufacturer's			12-MONTH						
*FL-0328	DRILLING PROJECT	10/27/2011	Emergency Engine	Diesel	0		MAN D-2842 LE model engine	specifications for this engine	0.0	3 T/YR	ROLLING		0			0	
							One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide										
							One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup electrical power in the event of a power outage at the HEF facility. The										
		I					generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per										
		I					p	I	1	1	1	1	1	1	1	1	1
	HIGHLANDS						year of operation during emergencies. The unit will be operated no more than 100			1						1	
	BIOREFINERY AND						hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII.										
			2000 KW Emergency Equipment				year of operation during emergencies. The unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA候s emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.	See Pollutant Notes.		2 G/KW-H							

Table D-D-4 Particulate Matter (PM) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT														
RBLCID		DATE PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
						One 600 hp diesel fire pump engine will be installed to provide firewater during										
	HIGHLANDS					power outages. This unit will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation. This unit will be operated no more than 100 hours										
	BIOREFINERY AND					per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The										
	COGENERATION PLANT	600 HP Emergency 9/23/2011 Equipment	Ultra-Low Sulfur Oil	(engine will be designed to meet US EPA's emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2009 or later.	See Pollutant Notes.	0.15	G/HP-H		(0		
							Use of good combustion practices based									
							on the current manufacturer's specifications for these engines, use of									
							low sulfur diesel fuel, positive crankcase			PER YEAR 12						
	SAKE PROSPECT	Emergency Generator Diesel Engine -					ventilation, turbocharger with aftercooler, high pressure fuel injection with			MONTH ROLLING						
*FL-0338	DRILLING PROJECT	5/30/2012 Development Driller 1	Diesel	2225	hp		aftercooler	0.03	T/YR	TOTAL	(1		0		
							Use of good combustion practices based									
							on the current manufacturer's specifications for these engines, use of									
		г с .					low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler,			PER YEAR 12 MONTH						
	SAKE PROSPECT	Emergency Generator Diesel Engine - C.R.					high pressure fuel injection with			ROLLING						
*FL-0338	DRILLING PROJECT	5/30/2012 Luigs	diesel	2064	hp	Caterpillar D3516A 1998	aftercooler	0.04	T/YR	TOTAL	(1		0		
*FL-0346	I AUDEDDALE DI ANIO	Four 3100 kW black star	ULSD		MMBtu/hr (HHV) per	Eind mid III CD	Conditional of		G/KW-H] .					
	LAUDERDALE PLANT	4/22/2014 emergency generators Emergency fire pump			engine	Fired with ULSD	Good combustion practice				<u> </u>	1		0		
*FL-0346	LAUDERDALE PLANT	4/22/2014 engine (300 HP)	USLD	29	MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice	0.2	G/HP-H		(0		
	ANADARKO				1		Use of good combustion practices based									
	PETROLEUM						on the most recent manufacturer's specifications issued for engines and with									
	CORPORATION - EGOM	Main Propulsion 9/16/2014 Generator Diesel Engines	Discal	9910	l ba	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610	turbocharger, aftercooler, and high injection pressure	0.43	G/KW-H	ROLLING 24 HOUR AVERAGE						
112-0347	LGOW	9/10/2014 Generator Dieser Engines	Diesei	7710	пр	np		0.43	G/KW-II	HOUR AVERAGE						
	ANADARKO						Use of good combustion practices based on the most recent manufacturer's									
	PETROLEUM CORPORATION -						specifications issued for engines and with turbocharger, aftercooler, and high									
*FL-0347	EGOM	9/16/2014 Emergency Diesel Engine	e Diesel	3300	hp	1998 Wartsila 6R32LNE	injection pressure NO SPECIFIC CONTROL	0			(0		
							NO SPECIFIC CONTROL TECHNOLOGY IS SPECIFED.									
						THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED	ENGINE IS REQUIRED TO MEET LIMITS ESTABLISHED AS BACT									
						AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A-	(TIER 2 NONROAD). THIS COULD									
	ADM CORN					577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,00 KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR	REQUIRE ANY NUMBER OF CONTROL TECHNOLOGIES AND						12-MONTH			
	PROCESSING - CEDAR	EMERGENCY				EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT	OPERATIONAL REQ. TO MEET THE			AVERAGE OF 3			ROLLING			
	RAPIDS TATE & LYLE	6/29/2007 GENERATOR	DIESEL	1500	KW	LIMITS AND DIFFERENT TON/YR BACT LIMITS.	BACT STANDARD.	0.15	G/HP-H	TEST RUNS AVERAGE OF	0.17	T/YR	TOTAL 12-MONTH	0		
IA-0095	INDGREDIENTS AMERICAS, INC.	EMERGENCY 9/19/2008 GENERATOR	DIESEL	700	KW			0.2	G/KW-H	THREE STACK TEST RUNS	0.05	T/YR	ROLLING TOTAL			
		7/17/2000 GENERATION	DILULL	700				0.2	CALCH II	AVERAGE OF 3	0.00	17.11	ROLLING 12			
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012 Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	0.2	G/KW-H	STACK TEST RUNS	0.22	T/YR	ROLLING 12 MONTH TOTAL	0		
	CF INDUSTRIES NITROGEN, LLC -									AVERAGE OF THREE (3)			ROLLING			
	PORT NEAL NITROGEN									STACK TEST			TWELVE (12)			
	COMPLEX POWER COUNTY	7/12/2013 Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices ULSD FUEL, GOOD COMBUSTION	0.2	G/KW-H	RUNS	0.02	T/YR	MONTH TOTAL	0		
	ADVANCED ENERGY CENTER	2 MW EMERGENCY 2/10/2009 GENERATOR, SRC25	ASTM #1, 2, DIESEL	2000	kw	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	PRACTICES, EPA CERTIFIED PER NSPS IIII			SEE NOTE						
	POWER COUNTY	500 KW EMERGENCY		2000		THE TOTAL CONTROL TESTING AND MAINTENANCE					,					
	ADVANCED ENERGY CENTER	GENERATOR, FIRE 2/10/2009 PUMP, SRC26	ASTM #1, 2, DIESEL	500	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	ULSD FUEL, EPA CERTIFICATION PER NSPS IIII	0		SEE NOTE				0		
	LANGLEY GULCH	EMERGENCY					TIER 2 ENGINE-BASED, GOOD COMBUSTION PRACTICES									
ID-0018	POWER PLANT	6/25/2010 GENERATOR ENGINE	DIESEL	750	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	(GCP)	0.2	G/KW-H		(0		
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014 Emergency Generator	distillate fuel oil	3755	HP		Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	0.1	G/KW-H					0		
	ST. JOSEPH ENEGRY	TWO (2) EMERGENCY				THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND						HOURS OF OPERATIO				
	CENTER, LLC	12/3/2012 DIESEL GENERATORS	DIESEL	1006	HP EACH	EG02, EXHAUST THROUGH TWO (2) VENTS.	AND USAGE LIMITS	0.15	G/HP-H		500	N	YEARLY	0		
	ST. JOSEPH ENEGRY	EMERGENCY DIESEL				THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03,	COMBUSTION DESIGN CONTROLS					HOURS OF OPERATIO				
*IN-0158	CENTER, LLC	12/3/2012 GENERATOR	DIESEL	2012	HP	EXHAUSTS THROUGH ONE (1) VENT.	AND USAGE LIMITS USE OF LOW-S DIESEL AND	0.15	G/HP-H	3 HOURS	500		YEALRY	0		
	INDIANA	TWO (2) EMERGENCY			HORSEPOWER,		LIMITED HOURS OF NON-		PPM							
*IN-0166	GASIFICATION, LLC	6/27/2012 GENERATORS DIESEL FIRED	DIESEL	1341	EACH	IDENTIFIED AS EU-009A AND EU-009B	EMERGENCY OPERATION	15	SULFUR		+ '	1		0		
*IN-0173	MIDWEST FERTILIZER CORPORATION	EMERGENCY 6/4/2014 GENERATOR	NO. 2, DIESEL	2600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE						
11-01/3		DIESEL-FIRED	1.O. 2, DIEGEL	3000		ACTOR TO BE TENTED.	GGGD COMBOSTION I RACTICES	0.13	SIII-II	JAKAYEKAGE	<u> </u>			ľ		
	OHIO VALLEY	EMERGENCY	I	4000	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	1 (,				
*IN-0179	RESOURCES, LLC	9/25/2013 GENERATOR	NO. 2 FUEL OIL	4090	D-111											
		9/25/2013 GENERATOR DIESEL FIRED EMERGENCY	NO. 2 FUEL OIL	4690	D-III	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS.										

Table D-D-4 Particulate Matter (PM) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

ī —		PERMIT			1									_			
RBLCID	FACILITY NAME	ISSUANCE		PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
				1				EXCLUSIVE USE OF ULSD FUEL.	1	_		1		1	1		
								GOOD COMBUSTION PRACTICES,									
	WILDCAT POINT							LIMITED HOURS OF OPERATION,									
	GENERATION		EMERGENCY	ULTRA LOW			40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE									
*MD-0042	FACILITY	4/8/2014	GENERATOR 1	SULFU DIESEL	2250	KW	COMBUSTION PRACTICES	EMISSION LIMITS EXCLUSIVE USE OF ULSD FUEL.	0.1	5 G/HP-H		0	0.2 G/KW-H		(
				ULTRA LOW				GOOD COMBUSTION PRACTICES									
	COVE POINT LNG		EMERGENCY	SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE									
*MD-0044	TERMINAL	6/9/2014	GENERATOR	DIESEL	1550	HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.1	5 G/HP-H		0	.2 G/KW-H			,	
	KARN WEADOCK			ULTRA LOW													
	GENERATING		EMERGENCY	SULFUR			2980 HP. OPERATIONAL LIMITS: 1 HR/DAY, 500 HRS/YR FOR PM2.5	ENGINE DESIGN AND OPERATION.									
MI-0389	COMPLEX	12/29/2009	GENERATOR	DIESEL	2000	KW	NAAQS.	15 PPM SULFUR FUEL.	0.	2 G/KW-H	TEST METHOD TEST		0		(
											PROTOCOL:						
*MI-0400	WOLVERINE POWER	6/20/2011	Emergency generator	Diesel	4000	шр	Maximum operation was based on 500 hours per year.		0.1	5 G/HP-H	BACT/SIP/NSPS		ما				
WII-0400	WOLVERINE TOWER	0/29/2011	Emergency generator	Diesei	4000		THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF		0.1	5 (6)111-11	BAC1/SII/NSI S		*		,		
	FAIRBAULT ENERGY		EMERGENCY				THE 670 HP GENERATOR (LISTED AS A ' ' IC ENGINE, LARGE							1			
MN-0071	PARK	6/5/2007	GENERATOR	NO. 2	1750	KW	FUEL OIL) IN MN-0053		0.000	7 LB/HP-H	3 HOUR		0		()	
	HESS NEWARK																
NJ-0080	ENERGY CENTER CORNELL COMBINED	11/1/2012	Emergency Generator	ULSD	200	H/YR		use of ULSD, a low sulfur clean fuel	0.5	9 LB/H	+	+	0	+	1	1	-
	HEAT & POWER		EMERGENCY DIESEL	LOW SULFUR				ULTRA LOW SULFUR DIESEL AT 15	.								
NY-0101	PROJECT	3/12/2008		DIESEL	1000	KW	TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLY	PPM S		9 LB/H	1 HOUR AVG		20 % OPACIT	v	0.00	G/KW-H	
111 0101	MERCK & CO.	3/12/2000	MOBILE EMERGENCY	DILULL	1000		TWO (2) OLE CLEATIONS EMITTED TO OUR HOCKS TON BOTH TENTONELET	11.11.0.	0.1	,	HOURING		20 70 OTTICIT		0.00	GILW II	
PA-0271	WESTPOINT	2/23/2007	GENERATOR	DIESEL					0.1	6 G/HP-H		0	.2 T/YR			,	
											12-MONTH						
	HICKORY RUN		EMERGENCY	Ultra Low sulfur							ROLLING						
*PA-0291	ENERGY STATION	4/23/2013	GENERATOR	Distillate	7.8	MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		0.0	2 T/YR	TOTAL		0		(
	ML 35 LLC/PHILA		DIESEL GENERATOR (2.25 MW EACH) - 5											AS A 12-MONTH			
*PA-0292	CYBERCENTER	6/1/2012		#2 Oil			Engines are equipped with SCR and CO Oxidation catalyst		0.2	8 LB/H		0.0	03 T/YR	ROLLING			
174-0292	ENERGY ANSWERS	0/1/2012	CINITS	#2 Oil			Engines are equipped with SCR and CO Oxidation catalyst		0.2	O LD/II		0.0	05 17 TK	ROLLING	,		
	ARECIBO PUERTO																
	RICO RENEWABLE		Emergency Diesel				Emergency Generator is rated at 670 BHP and is limited to 500 hr per year										
*PR-0009	ENERGY PROJECT	4/10/2014		ULSD Fuel oil # 2			(emergency and testing and maintenance, combined)		0.1	5 G/HP-H		0.2	22 LB/H		()	
			DIESEL EMERGENCY	n.many		vvn.	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR										
SC-0114	GP ALLENDALE LP	11/25/2008	GENERATOR	DIESEL	1400	HP	TESTING OR EMERGENCY PURPOSES. THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR		0.2	5 LB/H		0.0	06 T/YR		0.00	G/HP-H	
							TESTING OR EMERGENCY PURPOSES	TUNE-UPS AND INSPECTIONS WILL									
								BE PERFORMED AS OUTLINED IN									
			DIESEL EMERGENCY				THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF	THE GOOD MANAGEMENT									
SC-0115	GP CLARENDON LP		GENERATOR	DIESEL	1400		OPERATION PER YEAR.	PRACTICE PLAN.	0.2	5 LB/H		0.0	06 T/YR		0.00	G/HP-H	
*SD-0005	DEER CREEK STATION	6/29/2010	Emergency Generator	Distillate Oil	2000	Kilowatts				0			0		()	
							The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500										
							horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides										
							(NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited	l									
							hours of operation. Emissions from the engine shall not exceed 0.0218 grams per							1			
							horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52							1	1		
							hours per year of non-emergency operation.							1			
		1					Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra										
							low sulfur diesel). The engine is limited to 52 hours per year of non-emergency]						1	1		
							operation.							1	1		
							Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression							1			
	PEONY CHEMICAL						Ignition Internal Combustion Engine and							1	1		
	MANUFACTURING		Emergency Diesel				40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For	Minimized hours of operations Tier II						1			
*TX-0728	FACILITY	4/1/2015	Generator	Diesel	1500	hp	Stationary Reciprocating Internal Combustion Engines.	engine	0.1	5 LB/H		0.0	01 T/YR			<u> </u>	

		PERMIT	1										T	1	1		
		ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE		PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	DONLIN GOLD		250 Hp Emergency CI, Diesel-fired				Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency	Clean Fuel and Good Combustion			3-HOUR						
*AK-0084	PROJECT	6/30/2017	RICE	Diesel	1500	kWe	diesel generators.	Practices	0.2	5 G/KW-HR	AVERAGE	0)		(
			GENERATORS														
*AL-0318	TALLADEGA SAWMILL	12/18/2017	(EU014A AND EU-	Discal			Emergency Only		l .	0					1 ,		
	MIDWEST FERTILIZER		Diesel Engines	Diesei			Ellictgency Only			G/HP-H	3 HOUR		,		,		
IN-0263	COMPANY LLC	3/23/2017	(Emergency) DEG1-13 - Diesel	DISTILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	0.1	5 EACH	AVERAGE	500	H/YR EACH		(
			Fired Emergency														
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	Generator Engine (EQT0012)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	1	0			,		1 (,	
	ST. JAMES METHANOL		SCPS Emergency	Dieses		inp							,		,		
*LA-0312	PLANT	6/30/2017	Diesel Generator 1	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII Compliance with NESHAP 40 CFR 63	0.0	8 LB/HR		0)		(
								Subpart ZZZZ and NSPS 40 CFR 60									
	ST. CHARLES POWER		emergency generator					Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel			HOURLY			ANNUAL			
LA-0313	STATION	8/31/2016	engines (6 units)	Diesel	2584	HP		fuel).	0.8	6 LB/H	MAXIMUM	0.21	T/YR	MAXIMUM	(
	CAMERON LNG		Emergency Generator Engines														
LA-0316	FACILITY	2/17/2017	(4 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII		0		0)		(
			Emergency Diesel Generator Engine				I-GDE-1201, II-GDE-1201 = 2346 hp										
	METHANEX - GEISMAR		(EUEMRGRICE in				I-GDE-1202 = 755 hp	complying with 40 CFR 60 Subpart IIII									
LA-0317	METHANOL PLANT	12/22/2016	FGRICE)	Diesel	0		I-GDE-1203 = 1193 hp	and 40 CFR 63 Subpart ZZZZ	-	0	TEST	1 0)		-	1	
	GRAYLING		EUEMENGINE					Certified engines, good design, operation			PROTOCOL WILL SPECIFY						
MI-0421	PARTICLEBOARD	8/26/2016	(Diesel fuel emergency engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	and combustion practices. Operational restrictions/limited use.	1.4	1 LB/H	AVG TIME.)			,	
			, , , , , , , , , , , , , , , , , , , ,														
			EUFPENGINE				a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted										
			(Emergency engine				to 4 hours/day, except during emergency conditions and stack testing, and 500										
MI-0423	INDECK NILES, LLC	1/4/2017	diesel fire pump)	Diesel Fuel	22.68	MMBTU/H	hours/year on a 12-month rolling time period basis. A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011	Good combustion practices.	1.5	8 LB/H	HOURLY	0)		1		
			EUEMRGRICE1 in FGRICE				or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a										
			(Emergency diesel				back up during an emergency (EUFPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month										
MI-0423	INDECK NILES, LLC	1/4/2017	generator engine)	Diesel	1.66	MMBTU/H	rolling time period basis.	Good combustion practices	0.5	7 LB/H	HOURLY	0)		(
			EUEMRGRICE2 in FGRICE					Certified engines, good design, operation			TEST						
	GRAYLING		(Emergency Diesel				One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in	and combustion practices. Operational			PROTOCOL				1		
MI-0425	PARTICLEBOARD	5/9/2017	Generator Engine) EUEMENGINE	Diesel	500	H/YR	FGRICE).	restrictions/limited use. Certified engines. Good design, operation	1 0.6	6 LB/H	SHALL SPECIFY TEST	0)		1	1	
MI-0425	GRAYLING PARTICLEBOARD	510,72015	(North Plant):	D: 1	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	and combustion practices. Operational restrictions/limited use.		2 LB/H	PROTOCOL SHALL SPECIFY						
MI-0425	PARTICLEBOARD	5/9/201	Emergency Engine	Diesel	500	H/YK	A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model		0.2	Z LB/H	SHALL SPECIFY	-	,		1	<u>'</u>	
	MEC NORTH, LLC AND		EUEMENGINE (South Plant):				year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel	Diesel particulate filter, good combustion									
*MI-0433	MEC SOUTH LLC	6/29/2018	Emergency Engine	Diesel	1341	HP	particulate filter.	practices and meeting NSPS Subpart IIII requirements.	0.5	4 LB/H	HOURLY	0)			,	
							A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to	Diesel particulate filter, good combustion									
	MEC NORTH, LLC AND		EUEMENGINE:				be compliant with Tier IV emission standards. Equipped with a diesel particulate	practices and meeting NSPS Subpart IIII									
*MI-0433	MEC SOUTH LLC BELLE RIVER	6/29/2018	Emergency engine Diesel Fired	Diesel	1341	HP	filter. A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later	requirements.	0.5	4 LB/H	HOURLY	0)		(
	COMBINED CYCLE		Emergency				and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified	1									
*MI-0435	POWER PLANT PSEG FOSSIL LLC	7/16/2018	Generator DIESEL-FIRED	Diesel	2	MW	engine subject to NSPS IIII.	State of the art combustion design	1.1	8 LB/H	HOURLY	0)		- (-	
	SEWAREN		EMERGENCY														
NJ-0084	GENERATING STATION	3/10/2016	GENERATOR 3000	ULSD	44	H/YR		use of ULSD a clean burning fuel, and limited hours of operation	0.2	6 LB/H					1 ,		
5007		5/10/2010	PROPANE-FIRED		***			and an or operation	0.2			1			1		
	GREENSVILLE POWER		EMERGENCY GENERATORS					Ultra Low Sulfur Diesel/Fuel (15 ppm						12 MO ROLLING	,		
*VA-0325	STATION	6/17/2016	150 kW (2)	DIESEL FUEL	0			max)	0.	4 G/KW	PER HR	1	T/YR	TOTAL	(
	GREENSVILLE POWER		Emergency Generator -														
	STATION		ESDG14	PROPANE	0			TH OR		9 G/HP-H	PER HR	0)		1		
WV-0027	INWOOD INTERNATIONAL	9/15/2017	Caterpillar 3215C	ULSD	900	bhp	Used to supply power to the facility in the event of power loss	ULSD	0.	2 G/HP-HR	+	1 0)		+ '	1	
AV 0071	STATION POWER	12.70.000	Black Start	III CD		LW.		0 10 1 4 7 4		CAID II	INSTANTANEOU	1	,		1 .]	
AK-0071	PLANT	12/20/2010	Generator (1)	ULSD	1500	KW-c		Good Combustion Practices		3 G/HP-H	2	1 0	,		+ '	1	
								Black Start diesel fired engine EU 13 shal be equipped with turbo charging and after	1								
								cooling. The turbo charger reduces NOx									
								emissions by boosting the pressure and temperature of the air entering the engine									
								allowing more fuel to be added to increase	e								
	INTERNATIONAL STATION POWER							power output. This translates into higher combustion efficiency and reduced									
AK-0073	PLANT	12/20/2010	Fuel Combustion	Diesel	1500	kW-e	EU 13 Black Start Engine	emissions.	0.0	3 G/HP-H		0)				
	POINT THOMSON PRODUCTION		Emergency Camp	Ultra Low Sulfur													
*AK-0082	FACILITY	1/23/2015	Generators	Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		0.1	5 G/HP-H		0)		(
	POINT THOMSON PRODUCTION		Bulk Tank	Ultra Low Sulfur													
*AK-0082	FACILITY	1/23/2015		Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		0.1	5 G/HP-H		0)				

	I	PERMIT	I	I	I	I	I		1	1							
		ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	PALMDALE HYBRID	DATE	EMERGENCY IC	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
CA-1212	POWER PROJECT	10/18/2011		DIESEL	2683	HP .	UNIT IS 2000 KW.	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H		0.1	15 G/HP-H		0		
	SHADY HILLS GENERATING		2.5 MW EMERGENCY	ULTRA LOW S				FIRING ULSO WITH A MAXIMUM SULFUR CONTENT OF 0.0015% BY WEIGHT AND A MAXIMUM HOURS			NA /RECORDKEEPI						
FL-0310	STATION	1/12/2009	GENERATOR	OIL	2.5	MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR	OF OPERATION OF 500 HOUR/YR.		G/HP-H	NG		0		0		
	SHADY HILLS GENERATING		2.5 MW EMERGENCY	III TRA LOWG				FIRING ULSO WITH A MAXIMUM SULFUR CONTENT OF 0.0015% BY WEIGHT AND A MAXIMUM HOURS			NA /RECORDKEEPI						
FL-0310	STATION	1/12/2009	GENERATOR	ULTRA LOW S OIL	2.5	MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR	OF OPERATION OF 500 HOUR/YR.		G/HP-H	NG		0				
12 0310		1712/2009	OLIVLION .	512			MUMICIAN ROOK OF OFERENCE STORY	Use of good combustion practices based on the current manufacturer's	0.4	GIII II							
			Emergency Generator Diesel Engine -					specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler.			PER YEAR 12 MONTH						
	SAKE PROSPECT		Development Driller					high pressure fuel injection with	`		ROLLING						
*FL-0338	DRILLING PROJECT	5/30/2012	1	Diesel	2229	hp		aftercooler	0.03	T/YR	TOTAL		0		0		
								Use of good combustion practices based on the current manufacturerâ ^{CTM} s specifications for these engines, use of									
								low sulfur diesel fuel, positive crankcase			PER YEAR 12						
	SAKE PROSPECT		Emergency Generator Diesel					ventilation, turbocharger with aftercooler, high pressure fuel injection with	·		MONTH ROLLING		1				
*FL-0338	DRILLING PROJECT	5/30/2012	Engine - C.R. Luigs	diesel	2064	1 hp	Caterpillar D3516A 1998	aftercooler	0.02	T/YR	TOTAL		0		0		
	ANADARKO PETROLEUM		Main Propulsion					Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with	1								
*FL-0347	CORPORATION - EGOM	9/16/2014	Generator Diesel Engines	Diesel	9910	hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	turbocharger, aftercooler, and high injection pressure	0.24	G/KW-H	ROLLING 24 HOUR AVERAGE		0				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A-577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,00	REQUIRE ANY NUMBER OF									
	ADM CORN PROCESSING - CEDAR		EMERGENCY				KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT	CONTROL TECHNOLOGIES AND OPERATIONAL REQ. TO MEET THE	.		AVERAGE OF 3			12-MONTH ROLLING			
IA-0088	RAPIDS	6/29/2007	GENERATOR	DIESEL	1500	kw	LIMITS AND DIFFERENT TON/YR BACT LIMITS.	BACT STANDARD.		G/HP-H	TEST RUNS	0.1	17 T/YR	TOTAL	0		
	TATE & LYLE INDGREDIENTS		EMERGENCY								AVERAGE OF THREE STACK			12-MONTH			
IA-0095	AMERICAS, INC.	9/19/2008	GENERATOR	DIESEL	700	kw			0.2	G/KW-H	TEST RUNS	0.0	08 T/YR	ROLLING TOTAL	0		
	IOWA FERTILIZER		E								AVERAGE OF 3 STACK TEST			ROLLING 12			
IA-0105	COMPANY	10/26/2012	Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	0.2	G/KW-H	RUNS	0.2	22 T/YR	MONTH TOTAL	0		
	CF INDUSTRIES NITROGEN, LLC -										AVERAGE OF THREE (3)			ROLLING			
	PORT NEAL NITROGEN		Emergency								STACK TEST			TWELVE (12)			
*IA-0106	COMPLEX	7/12/2013	Generators 2 MW	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices	0.2	G/KW-H	RUNS	0.0	02 T/YR	MONTH TOTAL	0		
	POWER COUNTY		EMERGENCY					ULSD FUEL, GOOD COMBUSTION									
ID-0017	ADVANCED ENERGY CENTER	2/10/2009	GENERATOR, SRC25	ASTM #1, 2, DIESEL	2000	kw	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	PRACTICES, EPA CERTIFIED PER NSPS IIII			SEE NOTE		0				
10 001/		2/10/2009	500 KW		2000	1	TO 100 IF THE OR ROOTH E TESTING AND MAINTENANCE		1						1		T
	POWER COUNTY		EMERGENCY GENERATOR,														
ID-0017	ADVANCED ENERGY CENTER	2/10/2009	FIRE PUMP, SRC26	ASTM #1, 2, DIESEL	500	kw	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	ULSD FUEL, EPA CERTIFICATION PER NSPS IIII			SEE NOTE		0				
	CRONUS CHEMICALS,		Emergency				THE TATOR ROOMS TESTING AND MAINTENANCE	Tier IV standards for non-road engines at	1								T
*IL-0114	LLC	9/5/2014	Generator TWO (2)	distillate fuel oil	3755	5 HP		40 CFR 1039.102, Table 7.	0.1	G/KW-H	+	-	0		- 0	-	+
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012		DIESEL	1006	5 HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 ANI EG02, EXHAUST THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	3 HOURS	50	HOURS OF OPERATIO N	YEARLY	0		
	ST. JOSEPH ENEGRY		EMERGENCY DIESEL				THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03,	COMBUSTION DESIGN CONTROLS					HOURS OF OPERATIO				
*IN-0158	CENTER, LLC	12/3/2012	GENERATOR	DIESEL	2012	HP	EXHAUSTS THROUGH ONE (1) VENT.	AND USAGE LIMITS		G/HP-H	3 HOURS	50	00 N	YEALRY	0		
	INDIANA		TWO (2) EMERGENCY			HORSEPOWER,		USE OF LOW-S DIESEL AND LIMITED HOURS OF NON-		PPM							
*IN-0166	GASIFICATION, LLC	6/27/2012	GENERATORS	DIESEL	1341	EACH	IDENTIFIED AS EU-009A AND EU-009B	EMERGENCY OPERATION	15	SULFUR			0		0		
	MIDWEST FERTILIZER		DIESEL FIRED EMERGENCY				ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS.										
*IN-0173	CORPORATION	6/4/2014	GENERATOR	NO. 2, DIESEL	3600	BHP	INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE		0		0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2012	DIESEL-FIRED EMERGENCY GENERATOR	NO. 2 FUEL OIL	1601	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE		0				
111-01/9		912312013	DIESEL FIRED	Z TOBE OIL	4090			GGGD COMBOSTION TRACTICES	0.13	G/111-11	J.IK AVERAGE						T
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	EMERGENCY GENERATOR	NO. 2, DIESEL	3600	ВНР	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE		0				
			EMERGENCY		5000		21-08: 1341 HP		0.13								
			GENERATORS (DOCK & amp;				21-08: 1341 HP 22-08: 671 HP										
LA-0211	GARYVILLE REFINERY	12/27/2007	TANK FARM) (21-	DIESEL.	1341	l _{III}	GENERATORS PERMITTED FOR 182 H/YR EA.	USE OF DIESEL WITH A SULFUR CONTENT OF 15 PPMV OR LESS	0.0000	LB/HP-H	ANNUAL AVERAGE						
[LA-0211	DAKT VILLE KEFINERY	12/2//2006	08 & amp; 22-08)	DIESEL	1341	Inr	GENERATORS FERMITTED FOR 182 H/TR EA.	CONTENT OF 15 PPMV OR LESS	0.0022	LB/HP-H	AVERAGE		VI.		1 0		

		PERMIT															
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			DIESEL					GOOD COMBUSTION PRACTICES,									
	CREOLE TRAIL LNG		EMERGENCY GENERATOR					GOOD ENGINE DESIGN, AND USE OF LOW SULFUR AND LOW ASH			HOURLY			ANNUAL			
LA-0219	IMPORT TERMINAL	8/15/2007	NOS. 1 & amp; 2	DIESEL	2168	HP EACH		DIESEL	0.69	LB/H	MAXIMUM		.17 T/YR	MAXIMUM	0		
	LAKE CHARLES		EMERGENCY DIESEL POWER														
	GASIFICATION		GENERATOR					COMPLY WITH 40 CFR 60 SUBPART			MAXIMUM						
LA-0231	FACILITY FLOPAM INC.	6/22/2009	ENGINES (2) Large Generator	DIESEL	1341	HP EACH	11 units: 591 hp	IIII	0.06	LB/H	(EACH)	1	.02 G/HP-H		0		
LA-0251	FACILITY	4/26/2011	Engines (17 units)	Diesel	0		6 units: 1175 hp		0.01	LB/H			0.2 G/KW-H				
	NINEMILE POINT ELECTRIC		EMERGENCY DIESEL					ULTRA LOW SULFUR DIESEL AND			ANNUAL						ANNUAL
LA-0254	GENERATING PLANT		GENERATOR	DIESEL	1250	HP		GOOD COMBUSTION PRACTICES	0.15	G/HP-H	AVERAGE		0		0.15	G/HP-H	AVERAGE
	AMMONIA		EMERGENCY DIESEL														
	PRODUCTION		GENERATOR					Compliance with 40 CFR 60 Subpart IIII;	:								
*LA-0272	FACILITY SALEM HARBOR	3/27/2013	(2205-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	good combustion practices.	0				0		0.2	G/KW-HR	
	STATION		Emergency				â‰□ 300 hours of operation per 12-month rolling period				1 HR BLOCK			1 HR BLOCK			
*MA-0039	REDEVELOPMENT	1/30/2014	Engine/Generator	ULSD	7.4	MMBtu/hr	S in ULSD: â‰=0.0015% by weight	EXCLUSIVE USE OF ULSD FUEL,	0.15	G/HP-H	AVERAGE	-	.36 LB/H	AVERAGE	0		
								GOOD COMBUSTION PRACTICES,									
	WILDCAT POINT GENERATION		EMERGENCY	ULTRA LOW			40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	LIMITED HOURS OF OPERATION, AND DESIGNED TO ACHIEVE									
*MD-0042	FACILITY	4/8/2014	GENERATOR 1	SULFU DIESEL	2250	KW	COMBUSTION PRACTICES	EMISSION LIMITS	0.15	G/HP-H			.23 G/KW-H		0		
			EMERGENCY					EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES,									
	WILDCAT POINT		DIESEL ENGINE					LIMITED HOURS OF OPERATION,									
*MD-0042	GENERATION	4/8/2014	FOR FIRE WATER	ULTRA LOW SULFUR DIESEL	477	LID	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.15	G/HP-H			.23 G/KW-H				
*MD-0042	FACILITY	4/8/2014	PUMP	SULFUR DIESEL	4//	HP	COMBUSTION PRACTICES	GOOD COMBUSTION PRACTICES,	0.15	G/HP-H		1	1.23 G/KW-H		-		
	PERRYMAN		na emp ora corr					LIMITED HOURS OF OPERATION,									
*MD-0043	GENERATING STATION	7/1/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1300	HP	40 CFR 60 SUBPART IIII, GOOD COMBUSTION PRACTICES	AND EXCLUSIVE USE OF ULSD	0.17	G/HP-H	CONDENSIBLE FILTERABLE	†	.15 G/HP-H	FILTERABLE			
								EXCLUSIVE USE OF ULSD FUEL,									
	COVE POINT LNG		EMERGENCY	ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE									
*MD-0044	TERMINAL	6/9/2014	GENERATOR	SULFUR DIESEL	1550	HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.17	G/HP-H			0.23 G/KW-H		0		
	KARN WEADOCK GENERATING		EMERGENCY	ULTRA LOW			2980 HP. OPERATIONAL LIMITS: 1 HR/DAY, 500 HRS/YR FOR PM2.5	ENGINE DESIGN AND OPERATION.									
MI-0389	COMPLEX	12/29/2009	GENERATOR	SULFUR DIESEL	2000	KW	NAAQS.	15 PPM SULFUR FUEL.	0.0573	LB/MMBTU	TEST METHOD		0		0		
			Turbine generator (EUBLACKSTART				This is a turbine generator identified in the permit as EUBLACKSTART. It has a throughput capacity of 540MMBTU/HR which equates to 102 MW. The maximum				TEST			TEST			
*MI-0400	WOLVERINE POWER	6/29/2011)	Diesel	540	MMBTU/H	operation was based on 500 hours per year.		0.03	LB/MMBTU	PROTOCOL		6.2 LB/H	PROTOCOL	0		
			Emergency								TEST PROTOCOL;						
*MI-0400	WOLVERINE POWER	6/29/2011	generator	Diesel	4000	HP	Maximum operation was based on 500 hours per year.		1.76	LB/H	BACT		0		0		
	FAIRBAULT ENERGY		EMERGENCY				THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A ''IC ENGINE, LARGE										
MN-0071	PARK	6/5/2007	GENERATOR	NO. 2	1750	KW	FUEL OIL) IN MN-0053	,	0.0004	LB/HP-H	3 HOUR		0		0		
NJ-0079	WOODBRIDGE ENERGY CENTER	7/25/2012	Emergency Generator	Ultra Low Sulfur distillate Diesel	100	H/YR	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD oil	0.13	LB/H			0				
	HESS NEWARK		Emergency				15 ppin 70 bands by Weight bany	OLG OF GEOD OF							,		
NJ-0080	ENERGY CENTER	11/1/2012	Generator	ULSD	200	H/YR	UNIT FL12 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS		0.66	LB/H			0		0		
							VEGAS. LIKE ALL THE OTHER DIESEL GENERATORS, THE UNIT IS										
			SMALL				SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36 HOURS PER YEAR										
			INTERNAL				RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE USED TO										
	HARRAH'S OPERATING		COMBUSTION ENGINE (<600				CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT	THE UNIT IS EQUIPPED WITH A									
NV-0049	COMPANY, INC.	8/20/2009	HP) - UNIT FL12	DIESEL OIL	536	HP	REPEATED FURTHER FOR REPORTING THE BACT DETERMINATIONS.	TURBOCHARGER.	0.0022	LB/HP-H			.18 LB/H		0.0022	LB/HP-H	
			DIESEL EMERGENCY				THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY GENERATORS, EACH OF WHICH IS RATED AT 3.622 HORSEPOWER (HP)	7									
			GENERATORS -				OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY										
			UNITS CC009 THRU CC015 AT				AND TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE PRUPOSES ONLY. THE EMISSION LIMITS ARE BASED ON THE ATC	TURBOCHARGER AND GOOD									
NV-0050	MGM MIRAGE	11/30/2009	CITY CENTER	DIESEL OIL	3622	HP	PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006.	COMBUSTION PRACTICES	0.0001	LB/HP-H			0.4 LB/H		0.0001	LB/HP-H	
							THE TWO UNITS ARE IDENTICAL CATERPILLAR GENERATORS MODEL 3512C. EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION										
			EMERGENCY				ENGINE RATED AT 2,206 HORSE POWER (HP). THE EMISSION LIMITS										
			GENERATORS - UNITS LX024	1			REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH UNIT IS							1	1		
			AND LX025 AT	1			ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO	TURBOCHARGER AND GOOD						1	1		
NV-0050	MGM MIRAGE	11/30/2009	LUXOR EMERGENCY	DIESEL OIL	2206	HP	HOURS PER YEAR.	COMBUSTION PRACTICES	0.0001	LB/HP-H			0.2 LB/H	+	0.0001	LB/HP-H	
	CORNELL COMBINED HEAT & POWER		DIESEL	LOW SULFUR				ULTRA LOW SULFUR DIESEL AT 15						1	1		
NY-0101	PROJECT	3/12/2008	GENERATORS (2)	DIESEL	1000	KW	TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLY 2922 MAXIMUM HORSE POWER	PPM S		LB/H	1 HOUR AVG		20 % OPACIT	Y	0.09	G/HP-H	
				1			SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-RESETTABLE							1	1		
				1			HOUR METER PRIOR TO STARTUP PER 40 CFR 60.4209(A)							1	1		
	OTHER DEFINITION OF THE			1			DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND										
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	EMERGENCY GENERATOR	DIESEL FUEL OIL	2922	HP	60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.87	LB/H		"	1.22 T/YR	PER ROLLING 1: MONTH PERIOD	0.2	G/KW-H	FROM PART 89, SECTION 112
	OREGON CLEAN		Emergency				Emergency diesel fired generator restricted to 500 hours of operation per rolling 12-	Purchased certified to the standards in						PER ROLLING 1:	2-		
OH-0352	ENERGY CENTER	6/18/2013	generator	diesel	2250	KW	months.	NSPS Subpart IIII	0.99	LB/H			.25 T/YR	MONTHS	1 0		SEE NOTES

	1	PERMIT	1				I	1	1	1						
		ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD	AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT UNIT	CONDITION
			EMERGENCY													
			DIESEL					USE OF LOW SULFUR NO.2 FUEL								
			INTERNAL					OIL COMBINED WITH GOOD								
	HUGO GENERATING		COMBUSTION					COMBUSTION PRACTICES AND			l					
OK-0118	STA MID AMERICAN STEEL		Emergency					LIMITED ANNUAL OPERATION	0		SEE NOTE	0			0	
OK-0128	ROLLING MILL		Emergency Generator	No. 2 diesel	1200	шь			0.84	LB/H		0.21	T/YR		0.32 G/HP-H	
OK-0128	ROLLING MILL	9/8/2000	EMERGENCY	IVO. 2 dieser	1200				0.04	LINII		0.21	1/1 K		0.52 (6/11-11	
			DIESEL													
	CHOUTEAU POWER		GENERATOR	LOW SULFUR												
OK-0129	PLANT	1/23/2009	(2200 HP)	DIESEL	2200	HP			0.72	LB/H		0.2	G/KW-H	NSPS	0	
	A CONTRACTOR OF THE PARTY OF TH		MOBILE													
	MERCK & CO. WESTPOINT		EMERGENCY GENERATOR	DIESEL						G/HP-H			T/YR			
PA-0271	MOXIE LIBERTY	2/23/200	GENERATOR	DIESEL					0.16	G/HP-H		0.2	I/YR	_	0	
	LLC/ASYLUM POWER		Emergency													
PA-0278	PL T		Generator	Diesel	(The emergency generator will be restricted to operate not more than 100 hr/vr.		0.02	G/HP-H		0.06	LB/H		l ol	
	ENERGY ANSWERS															
	ARECIBO PUERTO															
	RICO RENEWABLE		Emergency Diesel				Emergency Generator is rated at 670 BHP and is limited to 500 hr per year									
*PR-0009	ENERGY PROJECT	4/10/2014	Generator DIESEL	ULSD Fuel oil # 2	((emergency and testing and maintenance, combined)		0.15	G/HP-H		0.22	LB/H	_	0	
			EMERGENCY				THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR									
SC-0114	GP ALLENDALE LP	11/25/2009	GENERATOR	DIESEL.	1400	HP	TESTING OR EMERGENCY PURPOSES.		0.2	LB/H		0.05	T/YR		0.06 G/HP-H	
DC 0111	OI THELESTER IS	11/25/2001	OLIVEROTI OR	DILOLL	1100		THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR		0.2	LLIVII		0.03	17110		0.00 (3111 11	
							TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL								
			DIESEL					BE PERFORMED AS OUTLINED IN								
			EMERGENCY				THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF	THE GOOD MANAGEMENT								
SC-0115	GP CLARENDON LP	2/10/2009	GENERATOR	DIESEL	1400	HP	OPERATION PER YEAR.	PRACTICE PLAN.	0.2	LB/H		0.05	T/YR		0.06 G/HP-H	
							The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500									
							horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides									
							(NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited	I .								
							hours of operation. Emissions from the engine shall not exceed 0.0218 grams per									
							horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52									
							hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide									
							(CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra	_							1	
							low sulfur diesel). The engine is limited to 52 hours per year of non-emergency									
	1	1					operation.							1		
							Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression								1	
	PEONY CHEMICAL						Ignition Internal Combustion Engine and								1	
	MANUFACTURING		Emergency Diesel				40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For	Minimized hours of operations Tier II								
*TX-0728	FACILITY	4/1/2015	Generator	Diesel	1500	hp	Stationary Reciprocating Internal Combustion Engines.	engine	0.15	LB/H	1	0.01	T/YR		0	

BBLCID FACILITY NAME DATE P	RMIT															
DONLIN GOLD *AK-0084 DONLIN GOLD *AK-0084 PROJECT 630-2017 E E C *AL-0318 TALLADEGA SAWMILL 12/18/2017 E E MIDWEST FERTILIZER (COMPANY LIC SOMPRESSOR STATION 1/22-016 & E COMPRESSOR 1/22-016 & E COMPRESSOR 1/22-016 & E LA-0315 LA-0315 STATION ST. JAMES METHANOL LA-0312 ST. JAMES METHANOL CAMERON LNG FACILITY 1/2-0312 ST. CHARLES POWER STATION STATION STATION STATION STATION METHANOL FACILITY 2/17/2017 III METHANOL FACILITY METHANOL FACILITY METHANOL FACILITY METHANOL FACILITY METHANOL PLANT E GRAYLING MI-0421 NDECK NILES, LLC MI-0423 NDECK NILES, LLC MI-0423 NDECK NILES, LLC MI-0424 METHANOL FACILITY METHANOL FACILITY MI-0423 NDECK NILES, LLC MI-0424 METHANOL FACILITY MI-0425 PARTICLEBOARD SP9/2017 IS MI-0425 METHANOL FACILITY METHANOL FACILITY MI-0426 GRAYLING MI-0427 MI-0428 METHANOL FACILITY MI-0429 NDECK NILES, LLC MI-0429 MEC NORTH, LLC AND METHANOL AND METHANOL AND METHANOL AND METHANOL AND METHANOL AND METHANOL AND METHANOL AND METHANOL AND METHANOL AND METHAN	UANCE			mun ou ounum	THROUGHPUT		CONTROL METHOD	EMISSION	******	AVG TIME	EMISSION	*121800	AVG TIME	STANDARAD		AVG TIME
DONLIN GOLD *AK-0084 PROJECT DONLIN GOLD *AK-0084 PROJECT DONLIN GOLD *AL-0318 TALLADEGA SAWMILL 12/18/2017 E GRAVLING MIDWEST FERTILIZER COMPANY LLC 3/23/2017 O MIDWEST FERTILIZER COMPANY LLC 3/23/2017 O E GRAVING METHANOL FACILITY ST. JAMES METHANOL ST. JAMES METHANOL ST. JAMES METHANOL ST. JAMES METHANOL ST. JAMES METHANOL ST. JAMES METHANOL CAMERON LNG STATION ST. CHARLES POWER STATION MECAPORTH, LLC SEVENAREN DE GRAYLING MEC NORTH, LLC AND METAPICAL SEVENCE MI-0423 PARTICLEBOARD SPOZEDO GREMSVILLE POWER WA-0435 STATION ORDER LANGE PARTICLEBOARD STAT	TE PROCESS NAME	PROCESS NAME PR	RIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
DONLIN GOLD *AK-0084 *PROJECT AK-0084 *AL-0318 TALLADEGA SAWMILL 12/18/2017 R 22 24 24 25 24 26 37 27 27 27 27 27 27 27 27 27	Black Start and															
*AK-084 PROJECT 6-30-2017 E *AL-0318 TALLADEGA SAWMILL 12/18/2017 C *AL-0318 TALLADEGA SAWMILL 12/18/2017 C *AL-0318 TALLADEGA SAWMILL 12/18/2017 C *MIDWEST FERTILIZER G MIDWEST FERTILIZER G MIDWEST FERTILIZER G COMPANY LLC 3/23/2017 0 HOLBROOK COMPRESSOR STATION 1/22/2016 & LA-0305 METHANOL FACILITY 6-30/2016 (I *LA-0315 LA-0315 FACILITY 6-30/2016 (I *LA-0316 ST. JAMES METHANOL G *LA-0317 ST. JAMES METHANOL G CAMERON LNG 2/17/2017 (I *AL-0316 FACILITY 2/17/2017 (I *METHANEX - GEISMAR LA-0317 METHANOL PLANT 12/22/2016 (I *MI-0421 PARTICLEBOARD 8/26/2016 F MI-0423 NDECK NILES, LLC 1/4/2017 of MI-0423 NDECK NILES, LLC 1/4/2017 of MI-0424 PARTICLEBOARD 5-9/2017 (I *MI-0425 PARTICLEBOARD 5-9/2017 (I *MI-0426 GRAYLING G MI-0427 METHANOL FALL MIDWEST FER FOR MIDWEST	Emergency Internal Cumbustion	Emergency Internal Cumbustion				Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency	Clean Fuel and Good Combustion			3-HOUR						
**AL-0318 TALLADEGA SAWMILL 12/18/2017 C **AL-0318 TALLADEGA SAWMILL 12/18/2017 C MIDWEST FERTILIZER G COMPANY LLC 3/23/2017 0 HOLBROOK COMPRESSOR STATION 1/22/2016 & COMPANY LLC SEWAREN STATION 1/22/2016 & COMPANY LLC SEWAREN STATION	6/30/2017 Engines	017 Engines Di	esel	1500	kWe	diesel generators.	Practices	0.25	G/KW-HR	AVERAGE	0			0		
*AL-0318 TALLADEGA SAWMILL 12/18/2017 R MIDWEST FERTILIZER (G. (G. (G. (G. (G. (G. (G. (G. (G. (G.	250 Hp Emergency CI, Diesel-fired	250 Hp Emergency														
MIDWEST FERTILIZER	12/18/2017 RICE	017 RICE Die	esel	0		Emergency Only		0			0			0		
MIDWEST FERTILIZER MIDWEST FERTILIZER MIDBROOK COMPANY LIC 323/2017 MIDBROOK COMPANY LIC MIDBROOK COMPANY LIC MIDBROOK COMPANY LIC MIDBROOK COMPANY LIC MIDBROOK LAC CHARLES LA-0305 METHANOL FACILITY G-30/2016 MIDBROOK METHANOL FACILITY G-30/2016 MIDBROOK MIDBROO	EMERGENCY															
N-0263 COMPANY LLC 3232017 0	GENERATORS (EU014A AND EU-	GENERATORS (EU014A AND EU-							G/HP-H	3 HOUR						
COMPRESSOR 122/2016 &	3/23/2017 014B)	017 014B) DI	STILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	0.15	EACH	AVERAGE	500	H/YR EACH		0		
COMPRESSOR 122/2016 &	E	E					Use of a certified engine, low sulfur									
LA-0305	Emergency Generators No. 1	Generators No. 1					diesel, and limiting non-emergency use to			HOURLY			ANNUAL			
LA-0305 METHANOL FACILITY 6-30/2016 E	1/22/2016 & Samp; No. 2	016 & amp; No. 2 Die	esel	1341	HP		no more than 100 hours per year	0.44	LB/HR	MAXIMUM	0.02	TPY	MAXIMUM	0.15	G/BHP-HR	
ST. JAMES METHANOL	Diesel Engines 6/30/2016 (Emergency)	Diesel Engines	esel	4023	hn		Complying with 40 CFR 60 Subpart IIII	0			0			0		
ST. JAMES METHANOL	DEG1-13 - Diesel	DEG1-13 - Diesel	Coca	1023	140		Complying wan to CI IC OO Duopait III									
**M-0423 INDECK NILES, LLC 1/4/2017 of GRAYLING MI-0423 INDECK NILES, LLC 1/4/2017 of GRAYLING MI-0425 PARTICLEBOARD 59/2017 of GRAYLING MI-0425 PARTICLEBOARD 59/2017 of GRAYLING MI-0425 PARTICLEBOARD 59/2017 of GRAYLING MI-0426 MEC NORTH, LLC AND MEC NORTH, L	Fired Emergency	Fired Emergency														
ST. CHARLES POWER STATION S731/2016 STATION S731/2016 STATION S731/2016 STATION S731/2016 STATION S731/2017 STATION S731/2017 STATION S731/2017 S731/2017 STATION S731/2017	Generator Engine 6/30/2017 (EQT0012)	O17 (EOT0012) Die	esel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	0.08	LB/HR		0			0		
LA-0313					· ·		Compliance with NESHAP 40 CFR 63									
LA-0313 STATION 8312016 D CAMERON LNG CAMERON LNG LA-0316 FACILITY 2172017 iv METHANEX - GEISMAR LA-0317 METHANOL PLANT 12222016 [4] GRAYLING GGAYLING MI-0421 PARTICLEBOARD 8262016 F IMI-0423 INDECK NILES, LLC 1442017 er MI-0423 INDECK NILES, LLC 1442017 er MI-0423 NDECK NILES, LLC 1442017 er GRAYLING GGAYLING						Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion										
LA-0313 STATION 8312016 D CAMERON LNG CAMERON LNG EVALUTY 21772017 iv METHANEX - GEISMAR LA-0317 METHANOL PLANT 12222016 [4] GRAYLING [6] MI-0421 PARTICLEBOARD 8262016 F MI-0423 INDECK NILES, LLC 1442017 of GRAYLING [7] MI-0423 INDECK NILES, LLC 1442017 of GRAYLING [7] MI-0423 INDECK NILES, LLC 1442017 of GRAYLING [7] MI-0423 PARTICLEBOARD 59/2017 of GRAYLING [7] MI-0425 PARTICLEBOARD 59/2017 of MI-0426 PARTICLEBOARD 59/2017 of MI-0427 MEC NORTH, LLC AND MI-0430 MEC NORTH, LLC AND MI-0431 MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MI-0433 MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MI-0435 POWER PLANT 76/62018 E FERSTON FOR THE STATION 3/10/2016 G WA-0325 STATION 6/17/2016 3 WA-0325 STATION 6/17/2016 11 GREENSVILLE POWER 6 GREENSVILLE POWER 6 GREENSVILLE POWER 6/17/2016 11	SCPS Emergency	SCPS Emergency					practices (use of ultra-low sulfur diesel			HOURLY			ANNUAL			
CAMERON LNG	8/31/2016 Diesel Generator 1	016 Diesel Generator 1 Die	esel	2584	HP		fuel).	0.86	LB/H	MAXIMUM	0.21	T/YR	MAXIMUM	0		
LA-0316	emergency generator engines (6	emergency														
METHANEL - GEISMAR L-0317 METHANEL - GEISMAR E GRAYLING GRAYLING GRAYLING MI-0421 PARTICLEBOARD S-26/2016 F			esel	3353	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
LA-0317 METHANOL PLANT 122222016 4	Emergency					I-GDE-1201, II-GDE-1201 = 2346 hp										
GRAYLING MI-0421 PARTICLEBOARD 826/2016 F MI-0423 INDECK NILES, LLC 1/4/2017 et MI-0423 INDECK NILES, LLC 1/4/2017 et MI-0423 INDECK NILES, LLC 1/4/2017 et GRAYLING MI-0425 PARTICLEBOARD 59/2017 d GRAYLING MI-0425 PARTICLEBOARD 59/2017 G GRAYLING MI-0425 PARTICLEBOARD 59/2017 G WI-0425 MEC SOUTH LLC 629/2018 E WI-0433 MEC SOUTH LLC 629/2018 E WI-0435 POWER PLANT 7/16/2018 E WI-0435 POWER PLANT 7/16/2018 E WI-0435 POWER PLANT 7/16/2018 E WI-0435 POWER PLANT 7/16/2018 E WI-0435 POWER PLANT 7/16/2018 E WI-0435 STATION 3/10/2016 G WY-040325 STATION 6/17/2016 3/	Generator Engines 12/22/2016 (4 units)	Generator Engines	esel	0		I-GDE-1202 = 755 hp I-GDE-1203 = 1193 hp	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	0			0			0		
GRAYLING (I MI-0421 PARTICLEBOARD S.26/2016 F	Emergency Diesel	Emergency Diesel					·			TEST						
MI-0421 PARTICLEBOARD 8.26/2016 F E	Generator Engine (EUEMRGRICE in	Generator Engine					Certified engines, good design, operation			PROTOCOL WILL SPECIFY						
MI-0423 INDECK NILES, LLC 1/4/20/17 er	8/26/2016 FGRICE)		esel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	and combustion practices. Operational restrictions/limited use.	1.41	LB/H	AVG TIME	0			0		
MI-0423 NDECK NILES, LLC																
MI-0423 NDECK NILES, LLC	EUEMENGINE	EUEN (ENICIDIE				a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted										
MI-0423 NDECK NILES, LLC 14/2017 et He	(Diesel fuel					to 4 hours/day, except during emergency conditions and stack testing, and 500										
MI-0423 NDECK NILES, LLC			esel Fuel	22.68	MMBTU/H	hours/year on a 12-month rolling time period basis.	Good combustion practices.	1.58	LB/H	HOURLY	0			0		
MI-0423 INDECK NILES, LLC						A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a										
MI-0423 NDECK NILES, LLC 1/4/20/1 di	EUFPENGINE	EUFPENGINE				back up during an emergency (EUFPENGINE). Restricted to 1 hour/day, except										
GRAYLING F F F F F F F F F	(Emergency engine-					during emergency conditions and stack testing, and 100 hours/year on a 12-month										
GRAYLING GRAYLING MI-0425 PARTICLEBOARD S9/2017 88 GRAYLING MI-0425 FARTICLEBOARD S9/2017 89 MI-0425 MEC NORTH, LLC AND MEC NORTH, LLC	1/4/2017 diesel fire pump) EUEMRGRICE1 in	017 diesel fire pump) Die	esel	1.66	MMBTU/H	rolling time period basis.	Good combustion practices	0.57	LB/H	HOURLY	0			0		
MI-0425 PARTICLEBOARD 59/2017 g GRAYLING F GRAYLING F GRAYLING F MI-0425 PARTICLEBOARD 59/2017 g MEC NORTH, LLC AND MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MEC SOUTH LLC SEWAREN COMINISED CYCLE SEWAREN GENERATING D GREENSVILLE POWER G MYA-0325 STATION 3/10/2016 G MYA-0325 STATION 617/2016 37 MYA-0325 STATION 617/2016 12 GREENSVILLE POWER G GREENSVILLE POWER G GREENSVILLE POWER G MYA-0325 STATION 617/2016 12 MYA-0325 STATION 617/2016 12 GREENSVILLE POWER G GREENSVILLE G GREENSVILLE G GREENSVILLE G GREENSVILLE G GREENSVILLE G G G G G G G G G G G G G G G G G G G	FGRICE	FGRICE					Certified engines, good design, operation			TEST						
### GRAYLING ### FILE	(Emergency diesel					One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in	and combustion practices. Operational			PROTOCOL						
GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GRAYLING GREENSVILLE POWER GREENSVILLE GREENSVI	5/9/2017 generator engine)	017 generator engine) Die	esel	500	H/YR	FGRICE).	restrictions/limited use.	0.66	LB/H	SHALL SPECIFY	0			0		
GRAYLING 0 0 0 0 0 0 0 0 0	EUEMRGRICE2 in															
MI-0425	FGRICE						Certified engines. Good design, operation			TEST						
MEC NORTH, LLC AND MEC SOUTH LLC MEC SOUTH LLC MEC NORTH, LLC AND MEC SOUTH LLC MEC NORTH, LLC AND MEC SOUTH LLC MEC NORTH, LLC AND MEC SOUTH LLC MEC NORTH, LLC AND MEC SOUTH LLC MEC NORTH, LLC AND MEC SOUTH LLC MEC NORTH MEC	(Emergency Diesel 5/9/2017 Generator Engine)	(Emergency Diesel	esel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	and combustion practices. Operational restrictions/limited use.	0.22	LB/H	PROTOCOL SHALL SPECIFY	0					
MEC NORTH, LLC AND			esci	300	n/1K	A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model		0.22	LD/H	SHALL SPECIFT	0			0		
*MI-0433 MEC SOUTH LLC 629/2018 E MEC NORTH, LLC AND MEC SOUTH LLC SEVALENT 7/16/2018 E *MI-0433 MEC SOUTH LLC SEVALENT 7/16/2018 E *MI-0435 PSEG FOSSIL LLC SEWAREN D GERENTRING E GREENSVILLE POWER G *VA-0325 STATION 9/17/2016 3/17/2016 3/17/2016 1/17/	EUEMENGINE	EUEMENGINE				year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is	Diesel particulate filter, good combustion									
MEC NORTH, LLC AND E E	(North Plant): 6/29/2018 Emergency Engine	(North Plant): 018 Emergency Engine Die	esel	1341	НР	designed to be compliant with Tier IV emission standards. Equipped with a diesel	practices and meeting NSPS Subpart IIII	0.52	LB/H	HOURI V	0			0		
MEC NORTH, LLC AND			Coca	1511		A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year	requiencis.	0.52	LDII	HOURDI						
*MI-0433 MEC SOUTH LLC 6-29/2018 E ELE RIVER COMBINED CYCLE *MI-0435 POWER PLANT 7/16-2018 E PSEG FOSSIL LLC SEWAREN GENERATING BENERATING DENERATING DENERATING DENERATING DENERATING DENERATION STATION GREENSVILLE POWER GREENSVI	EUEMENGINE					of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to										
BELLE RIVER COMBINED CYCLE *MI-0435 POWER PLANT POSE POSSIL LC SEWAREN GENERATING NJ-0084 STATION GREENSVILLE POWER *VA-0325 STATION GREENSVILLE POWER *VA-0325 STATION GREENSVILLE POWER *VA-0325 STATION GREENSVILLE POWER *VA-0325 STATION GREENSVILLE POWER *VA-0325 STATION 6/17/2016 12 *VA-0325 STATION 6/17/2016 12	(South Plant): 6/29/2018 Emergency Engine		esel	1341	НР	be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	practices and meeting NSPS Subpart IIII requirements.	0.52	LB/H	HOURLY	0					
*MI-0435 POWER PLANT 7/16/2018 E PSE FOSSIL LL SEWAREN GENERATING E NJ-0084 STATION 3/10/2016 G *VA-0325 STATION 6/17/2016 3/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION 6/17/2016 13/ *VA-0325 STATION C 6/17/2016 13/			CSCI	1511		A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later,	requiencis.	0.52	LDII	HOURDI						
PSEG FOSSIL LLC SEWAREN D GENERATING D GENERATING D GENERATING D GENERATING D GENERATING D GENERATION G GENERATION G GENERATION G GENERATION G G G G G G G G G	EUEMENGINE:		.			and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified	L				_					
SEWAREN D GENERATING E E	7/16/2018 Emergency engine	J18 Emergency engine Die	esel	2	MW	engine subject to NSPS IIII.	State of the art combustion design.	1.18	LB/H	HOURLY	0			0		
NJ-0084	Diesel Fired															
CREENSVILLE POWER GREENSVILLE POWER GREENSVILLE POWER FOR STATION GREENSVILLE POWER GREENSVILL	Emergency	Emergency	.SD		H/YR		use of ULSD a clean burning fuel, and		LB/H		_					
GREENSVILLE POWER GREENSVILLE	DIESEL-FIRED	DIESEL-FIRED	עמ	44	n/1K		limited hours of operation	0.26	Ld/H		0			0		
*VA-0325 STATION 6/17/2016 30 P	EMERGENCY	EMERGENCY					L	1	1							
P E E F E	GENERATOR 6/17/2016 3000 kW (1)		ESEL FUEL	^			Ultra Low Sulfur Diesel/Fuel (15 ppm		G/KR	PER HR		T/YR	12 MO ROLLING TOTAL			
*VA-0325 STATION 6/17/2016 1: INTERNATIONAL E	PROPANE-FIRED	PROPANE-FIRED	LOLL FUEL	0			IIIIA)	0.4	UKK	LR HR	0.7	17 I K	TOTAL	0		
*VA-0325 STATION 6/17/2016 1: INTERNATIONAL C	EMERGENCY	EMERGENCY					L									
INTERNATIONAL C	GENERATORS 6/17/2016 150 kW (2)	GENERATORS	OPANE	0			Low sulfur fuel and good combustion practices	0.010	G/HP-H	PER HR						
CTATION POWER	Caterpillar 3215C	Caterpillar 3215C	OI AINE	0			practices	0.019	G/HF-H		0			0		
	Black Start									INSTANTANEOU						
AK-0071 PLANT 12/20/2010 G POINT THOMSON	12/20/2010 Generator (1)	J10 Generator (1) UI	.SD	1500	KW-e		Good Combustion Practices	0.03	G/HP-H	S	0			0		
PRODUCTION C	Combustion of															
AK-0076 FACILITY 8/20/2012 D	8/20/2012 Diesel by ICEs	012 Diesel by ICEs UL	.SD	1750	kW	Diesel-fired generators		0.2	G/KW-H	+	0			0		
	Emergency Camp	Emergency Camp Ulic	tra Low Sulfur													
		015 Generators Di	esel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		0.15	G/HP-H		0			0		

		PERMIT														I	
		ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID		DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT	CONDITION	EMISSION LIMIT	UNIT	CONDITION
	POINT THOMSON																
*AK-0082	PRODUCTION FACILITY	1/23/2015	Bulk Tank Generator Engines	Ultra Low Sulfur Diesel	89	hn	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		0.15	G/HP-H					0		
								OPERATIONAL RESTRICTION OF 50									
	VICTORVILLE 2 HYBRID POWER		EMERGENCY					HR/YR; USE OF ULTRA LOW SULFUR FUEL NOT TO EXCEED 15									
CA-1191	PROJECT	3/11/2010	ENGINE	DIESEL	2000	KW	2000 KW (2,683 hp) engine	PPMVD	0.2	G/KW-H		0.15	G/HP-H		0		
	PALMDALE HYBRID		EMERGENCY IC														
CA-1212	POWER PROJECT	10/18/2011	ENGINE	DIESEL	2683	HP	UNIT IS 2000 KW.	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H		0.15	G/HP-H		0		
								Use of good combustion practices based									
			E					on the current manufacturer's specifications for these engines, use of									
			Emergency Generator Diesel					low sulfur diesel fuel, positive crankcase			PER YEAR 12						
			Engine -					ventilation, turbocharger with aftercooler,			MONTH						
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Development	D: 1	2229			high pressure fuel injection with	0.02	T/YR	ROLLING TOTAL						
*FL-0558	DRILLING PROJECT	5/30/2012	Driller 1	Diesei	222	np		attercooler	0.03	1/YK	IOIAL	-			- 0		
								Use of good combustion practices based									
								on the current manufacturer's specifications for these engines, use of									
								low sulfur diesel fuel, positive crankcase			PER YEAR 12						
			Emergency					ventilation, turbocharger with aftercooler,			MONTH						
	SAKE PROSPECT		Generator Diesel					high pressure fuel injection with			ROLLING						
*FL-0338	DRILLING PROJECT	5/30/2012	Engine - C.R. Luigs	diesel	2064	hp	Caterpillar D3516A 1998	aftercooler	0.02	T/YR	TOTAL	- (+	- 0		
								Use of good combustion practices based							1		
	ANADARKO							on the most recent manufacturer's				1					
	PETROLEUM CORPORATION -		Main Propulsion				Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610	specifications issued for engines and with			ROLLING 24						
*FL-0347	EGOM	9/16/2014	Generator Diesel Engines	Diesel	9910	hp	bn 1998 Wartsiia 18V32LNE 9910 np and 1W0 1998 Wartsiia 12V32LNE 0610	turbocharger, aftercooler, and high injection pressure	0.24	G/KW-H	HOUR AVERAGE						
											AVERAGE OF 3						
. 0105	IOWA FERTILIZER	10.75(7012	Emergency	F 16 1	.,,	CALT	. 1 0 2 000 VW		0.2	CANNI II	STACK TEST	0.22	TAID	ROLLING 12			
IA-0105	COMPANY CF INDUSTRIES	10/26/2012	Generator	diesel fuel	14.	GAL/H	rated @ 2,000 KW	good combustion practices	0.2	G/KW-H	AVERAGE OF	0.22	T/YR	MONTH TOTAL	0		
	NITROGEN, LLC -										THREE (3)			ROLLING			
	PORT NEAL NITROGEN	1	Emergency								STACK TEST			TWELVE (12)			
*IA-0106	COMPLEX CRONUS CHEMICALS,	7/12/2013	Generators Emergency	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices Tier IV standards for non-road engines at	0.2	G/KW-H	RUNS	0.02	T/YR	MONTH TOTAL	0		
*IL-0114	LLC	9/5/2014	Generator	distillate fuel oil	3755	HP		40 CFR 1039.102, Table 7.	0.1	G/KW-H					0		
			TWO (2)														
	CT TOCERU ENECRY		EMERGENCY DIESEL				THE TWO DITERMAL COMBUSTION ENGINES INCRETED AS FOR AND	COMPULCTION DESIGN CONTROLS					HOURS OF OPERATIO				
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC		GENERATORS	DIESEL	1000	HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	AND USAGE LIMITS	0.15	G/HP-H	3 HOURS	500	N N	YEARLY	0		
			EMERGENCY										HOURS OF				
.n	ST. JOSEPH ENEGRY	12/3/2012	DIESEL	DIESEL			THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS		0.770.77		500	OPERATIO	YEARLY			
*IN-0158	CENTER, LLC	12/3/2012	GENERATOR TWO (2)	DIESEL	2012	HP	EXHAUSTS THROUGH ONE (1) VENT.	AND USAGE LIMITS	0.15	G/HP-H	3 HOURS	500	N	YEARLY	0		
	INDIANA		EMERGENCY			HORSEPOWER,				PPM							
*IN-0166	GASIFICATION, LLC	6/27/2012	GENERATORS	DIESEL	134	EACH	IDENTIFIED AS EU-009A AND EU-009B	USE OF LOW-S DIESEL	15	SULFUR		(0		
	MIDWEST FERTILIZER		DIESEL FIRED EMERGENCY				ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS.										
*IN-0173	CORPORATION	6/4/2014	GENERATOR	NO. 2, DIESEL	3600	BHP	INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	(0		
			DIESEL-FIRED														
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2012	EMERGENCY GENERATOR	NO. 2 FUEL OIL	4600	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.15	LB/HP-H	3-HR AVERAGE						
114-0179		9/23/2013	DIESEL FIRED	NO. 2 POLL OIL	40%	D-111		GOOD COMBOSTION FRACTICES	0.15	LD/III-II	5-IIK A VERAGE	1					
	MIDWEST FERTILIZER		EMERGENCY				ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS.										
*IN-0180	CORPORATION NINEMILE POINT	6/4/2014	GENERATOR EMERGENCY	NO. 2, DIESEL	3600	BHP	INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	- 0			0		
	ELECTRIC		DIESEL					ULTRA LOW SULFUR DIESEL AND			ANNUAL				1		ANNUAL
LA-0254	GENERATING PLANT	8/16/2011	GENERATOR	DIESEL	1250	HP		GOOD COMBUSTION PRACTICES	0.15	G/HP-H	AVERAGE	-		1	0.15	G/HP-H	AVERAGE
	AMMONIA		EMERGENCY DIESEL												1		
	PRODUCTION		GENERATOR					Compliance with 40 CFR 60 Subpart IIII;									
*LA-0272	FACILITY	3/27/2013	(2205-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	good combustion practices.	0		1	(1	0.2	G/KW-HR	
	SALEM HARBOR STATION		Emergency				â‰□ 300 hours of operation per 12-month rolling period				1 HR BLOCK			1 HR BLOCK			
*MA-0039	REDEVELOPMENT	1/30/2014	Emergency Engine/Generator	ULSD	7.4	MMBtu/hr	S in ULSD: 8%=0.0015% by weight		0.15	G/HP-H	AVERAGE	0.36	LB/H	AVERAGE	0		
								EXCLUSIVE USE OF ULSD FUEL,									
	WILDCAT POINT							GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OPERATION,									
	GENERATION		EMERGENCY	ULTRA LOW			40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE							1		
*MD-0042	FACILITY	4/8/2014	GENERATOR 1	SULFU DIESEL	2250	KW	COMBUSTION PRACTICES	EMISSION LIMITS	0.15	G/HP-H		0.23	G/KW-H		0		
								EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES									
	COVE POINT LNG		EMERGENCY	ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE							1		
*MD-0044	TERMINAL	6/9/2014	GENERATOR	SULFUR DIESEL	1550	HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.17	G/HP-H		0.23	G/KW-H		0		
			Turbine generator (EUBLACKSTAR				This is a turbine generator identified in the permit as EUBLACKSTART. It has a				TEST						
	1	6/29/2011	(EUBLACKSTAR T)	Diesel	5.41	MMBTU/H	throughput capacity of 540MMBTU/HR which equates to 102 MW. The maximum operation was based on 500 hours per year.		16.2	LB/H	PROTOCOL						
*MI_0400	WOLVERINE POWER		*,	DICK!	340		operation was oused the 500 flottes per year.		10.2	2011	TEST				-		
*MI-0400	WOLVERINE POWER																
			Emergency								PROTOCOL;						
*MI-0400 *MI-0400	WOLVERINE POWER	6/29/2011	generator	Diesel	4000	НР	Maximum operation was based on 500 hours per year. The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with		1.76	LB/H	PROTOCOL; BACT	0			0		
	WOLVERINE POWER WOODBRIDGE ENERGY CENTER		generator Emergency	Diesel Ultra Low Sulfur distillate Diesel		HP H/YR	Maximum operation was based on 500 hours per year. The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD oil		LB/H LB/H		0			0		
*MI-0400	WOLVERINE POWER WOODBRIDGE	6/29/2011 7/25/2012	generator		100		The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with	Use of ULSD oil use of ULSD, a low sulfur clean fuel				(0		

		PERMIT ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID			PROCESS NAME	PRIMARY FUEL	THROUGHPUT		PROCESS NOTES		LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT		EMISSION LIMIT	UNIT	CONDITION
			EMERGENCY														
	CORNELL COMBINED		DIESEL														
NY-0101	HEAT & POWER PROJECT	3/12/2008	GENERATORS	LOW SULFUR DIESEL	1000	vw.	TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLY	ULTRA LOW SULFUR DIESEL AT 15		.19 LB/H	1 HOUR AVG		0 % OPACITY		0.00	6 G/KW-H	
N 1 -0101	MOXIE LIBERTY	3/12/2006	(2)	DIESEL	1000	K.W	TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLT	FFW 3	0.	.19 LB/H	I HOUK AVG		0 % OFACILI		0.08	0 GKW-II	
	LLC/ASYLUM POWER		Emergency														
PA-0278	PL. T	10/10/2012	Generator	Diesel	0		The emergency generator will be restricted to operate not more than 100 hr/vr.		0	.02 G/HP-H		0.0	6 LB/H			0	
	ENERGY ANSWERS											-					
	ARECIBO PUERTO																
	RICO RENEWABLE		Emergency Diesel				Emergency Generator is rated at 670 BHP and is limited to 500 hr per year										
*PR-0009	ENERGY PROJECT	4/10/2014	Generator	ULSD Fuel oil # 2	0		(emergency and testing and maintenance, combined)		0.	.15 G/HP-H		0.2	2 LB/H			0	
							The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500										
							horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides										
							(NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited	1									
							hours of operation. Emissions from the engine shall not exceed 0.0218 grams per										
							horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52										
							hours per year of non-emergency operation.										
							Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide										
							(CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra	-									
							low sulfur diesel). The engine is limited to 52 hours per year of non-emergency										
							operation. Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression										
	PEONY CHEMICAL						Ignition Internal Combustion Engine and	1									
	MANUFACTURING		Emergency Diesel				40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For	Minimized hours of operations Tier II									
*TX-0728	FACILITY	4/1/2015	Generator	Diesel	1500	hp	Stationary Reciprocating Internal Combustion Engines.	engine	0.	.15 LB/H		0.0	1 T/YR			0	
0.120	MOUNDSVILLE				1,000					1							
	COMBINED CYCLE		Emergency														
*WV-0025	POWER PLANT	11/21/2014	Generator	Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.			0			0		0.1	5 G/HP-HR	1

Table D-D-7 Sulfur Dioxide (SO₂) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THRO THROUGHPUT UNIT	OUGHPUT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	3/9/2016	Three 3300-kW ULSD emergency generators	ULSD	0		BACT limits equal to NSPS Subpart IIII limits, Will use IIII certified engine.	Use of ULSD	0.0015	% S IN ULSD							
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	Two 3300 kW emergency generators	ULSD	0		Two ULSD-fueled emergency engines. BACT = Subpart IIII limits.	Clean fuel	15	PPM S IN FUEL							
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	Diesel Engines (Emergency)	Diesel	4023 hp			Complying with 40 CFR 60 Subpart IIII	0	,		(
			EUEMENGINE (Diesel				a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500	Good combustion practices and meeting			FUEL SUPPLIER CERTIFICATION						
MI-0423	INDECK NILES, LLC	1/4/2017	fuel emergency engine)	Diesel Fuel	22.68 MMBT	ru/H	hours/year on a 12-month rolling time period basis. A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011	NSPS Subpart IIII requirements.	15	PPM	RECORDS	(1		
MI-0423	INDECK NILES, LLC	1/4/2017	EUFPENGINE (Emergency engine-diesel fire pump)	Diesel	1.66 MMBT	ΓU/H	or later and a displacement of ~10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUFPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis. A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model	Good combustion practices and meeting NSPS Subpart IIII requirements.	15	PPM	FUEL SUP. CERT. RECORDS OR SAMPLE TEST))	
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant): Emergency	Diacal	1341 HP		A 1,541 AP (1,500 kinowats (kW)) dieser-inee einegency engine win a mouer year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices and meeting NSPS Subpart IIII requirements.	15	PPM	FUEL SUPPLIER CERTIF. RECORDS						
MP0433	MEC NORTH, LLC AND		EUEMENGINE (South Plant): Emergency	Diesei	1341 III		A 1.341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate	Good combustion practices and meeting	1,5	IIIVI	FUEL SUPPLIER RECORDS OR SMPLE TEST						
*MI-0433	MEC SOUTH LLC	6/29/2018		Diesel	1341 HP		be compilant with Tier TV emission standards. Equipped with a dieser particulate filter.	NSPS Subpart IIII requirements.	15	PPM	DATA	()	
*VA-0325	GREENSVILLE POWER STATION HILLABEE ENERGY	6/17/2016	EMERGENCY GENERATOR 3000 kW	DIESEL FUEL	0			Ultra Low Sulfur Diesel/Fuel (15 ppm max)	0.0015	LB/MMBTU		(0)	
AL-0251	CENTER SHADY HILLS		GENERATOR	DIESEL	600 EKW			LOW SULFUR DIESEL FUEL FIRING ULTRA LOW SULFUR OIL	0	,		()	
FL-0310	GENERATING STATION		2.5 MW EMERGENCY GENERATOR	ULTRA LOW S OIL	2.5 MW		MAXIMUM HOURS OF OPERATION: 500 HRS/YR	WITH A MAXIMUM HOURS OF OPERATION OF 500 HRS/YR.	0.0015	% SULFUR	NA/RECORDKEE						
FL-0310	HIGHLANDS BIOREFINERY AND COGENERATION PLANT		2000 KW Emergency	S OIL	2.3 MW		MAXIMON HOURS OF OPERATION: 300 HRSYIR One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup electrical power in the event of a power outage at the HEF facility. The generator will fire ULSD facel oil or natural gas and will be limited to 500 hours per year of operation during emergencies. The unit will be operated to more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA&III's emission standards listed in 40 CFR art 60 Subpart IIII for model vear 2000 for altex.	OPERATION OF 500 HRS/YR. See Pollutant Notes.		% SULFUR	PING		0				
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	600 HP Emergency	Ultra-Low Sulfur Oil			One 600 bp diesel fire pump engine will be installed to provide firewater during power outages. This unit will fire ULSD fiel oil or natural gas and will be limited to 500 hours per year of operation. This unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA&E ^{MS} emission standards listed in 40 CFR Part 60 Subpart III for model year 2009 or later.	See Pollutant Notes.	0.0015	% SULFUR							
*FL-0346	LAUDERDALE PLANT		Four 3100 kW black start emergency generators	ULSD	MMBtt 2.32 engine	u/hr (HHV) per	Fired with ULSD	ULSD required		PPM SULFUR IN FUEL							
			Emergency fire pump							PPM SULFUR IN							
*FL-0346	ADM CORN PROCESSING - CEDAR RAPIDS		engine (300 HP) EMERGENCY GENERATOR	USLD	29 MMBtt	u/hr	Emergency engine. BACT = NSPS III. THERE 1.500 KW PEMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-4.542-P, 07-4.576-P AND 07-4. 577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,00 KW EMERGENCY GENERATOR. PERMIT 07-4.578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TONYR BACT LIMITS.	Good combustion practice and ULSD BURN LOW-SULFUR DIESEL FUEL. 0.05% BY WEIGHT OR LESS NOT TO EXCEED THE NSPS REQUIREMENT.	15	FUEL G/B-HP-H	AVERAGE OF 3 TEST RUNS	24) T/YR	12-MONTH ROLLING TOTAL			
IA-0088	TATE & LYLE INDGREDIENTS		EMERGENCY	DIESEL	1500 KW		LIMITS AND DIFFERENT TON/YR BACT LIMITS.	EXCEED THE NSPS REQUIREMENT.	0.17	G/B-HР-H	AVERAGE OF THREE STACK	300	J I/YK	12-MONTH ROLLING		,	
IA-0095	AMERICAS, INC.		GENERATOR	DIESEL	700 KW			FUEL SULFUR LIMIT	0.23	G/KW-HR	TEST RUNS	0.09	T/YR HOURS OF	TOTAL			
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC		TWO (2) EMERGENCY DIESEL GENERATORS	DIESEL	1006 HP EA	сн	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	ULTRA LOW SULFUR DISTILLATE AND USAGE LIMITS	0.012	LB/H		500	OPERATIO	YEARLY			
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC		EMERGENCY DIESEL GENERATOR	DIESEL	2012 HP		THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	ULTRA LOW SULFUR DISTILLATE AND UASGE LIMITS	0.024	LB/H	3 HOURS	500	OPERATOI	YEARLY)	
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS	DIESEL	HORSI 1341 EACH	EPOWER,	IDENTIFIED AS EU-009A AND EU-009B	USE OF LOW-S DIESEL AND LIMITED HOURS OF NON- EMERGENCY OPERATION	.,	PPM SULFUR IN FUEL] ,	,			,	
	NEARMAN CREEK		EMERGENCY BLACK				THE CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO. 9S.RY-8.6) SHALL ONLY COMBUST NO. 2 FUEL OIL WITH VERY LOW SULFUR CONTENT AS THE PRIMARY FUEL TYPE. THERE WIL BE NO SECONDARY FUEL FOR BACKUP. [NOTE: THE INCREASE IN SIZE OF THE EMERGENCY BLACK START GENERATOR CAUSED THE SIGNIFICANT MODIFICATION. IN THE ORIGINAL PERMIT, OCTOBER 21, 2004. THE EMERGENCY BLACK START GENERATOR WAS A CATERFULLAR DIESEL GENERATOR (MODEL NO.: 3508 DITA) 900 KW. IT WAS CHANGED TO A CUMMINS POWER GENERATION DIESEL				FULL LOAD						
KS-0028	POWER STATION		START GENERATOR EMERGENCY GENERATORS (DOCK	OIL	24.1 MMBT	ru/H	GENERATOR (MODEL NO.: QSK78-G6) 2.8 MW.] 21-08: 1341 HP 22-08: 671 HP	GOOD COMBUSTION CONTROL	1.2	LB/H	OPERATIONS	-					
LA-0211	GARYVILLE REFINERY	12/27/2006		DIESEL	1341 HP		GENERATORS PERMITTED FOR 182 H/YR EA.		0.02	LB/H		0.0068	G/HP-H)	
LA-0231	LAKE CHARLES GASIFICATION FACILITY		EMERGENCY DIESEL POWER GENERATOR ENGINES (2)	DIESEL	1341 HP EA	сн		COMPLY WITH 40 CFR 60 SUBPART	0.01	LB/H	MAXIMUM (EACH)	0.0034	4 G/HP-H				

Table D-D-7 Sulfur Dioxide (SO₂) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KBLCID	SALEM HARBOR	DATE	PROCESS NAME	FUEL	THROUGHFUT	UNII	FROCESS NOTES	DESCRIPTION	LIMITI	UNII	1 HR BLOCK	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
	STATION		Emergency				â‰□ 300 hours of operation per 12-month rolling period				AVG						
*MA-0039	REDEVELOPMENT	1/30/2014	Engine/Generator	ULSD	7.4	MMBtu/hr	S in ULSD: â‰=0.0015% by weight		0.01	1 LB/H	INCLUDING SS	()		()	
	WILDCAT POINT			ULTRA LOW				USE OF ULTRA-LOW DIESEL SULFUR FUEL, LIMITED HOURS OF									
	GENERATION		EMERGENCY	SULFU			40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	OPERATION AND DESIGNED TO			3-HOUR BLOCK						
*MD-0042	FACILITY	4/8/2014	GENERATOR 1	DIESEL	2250	KW	COMBUSTION PRACTICES	MEET NSPS SUBPART IIII LIMITS	0.00	6 G/B-HP-H	AVERAGE	((,	
							This is a turbine generator identified in the permit as EUBLACKSTART. It has a										
*MI-0400	WOLVERINE POWER	6/20/2011	Turbine generator (EUBLACKSTART)	Diesel	540	MMBTU/H	throughput capacity of 540MMBTU/HR which equates to 102 MW. The maximum operation was based on 500 hours per year.		0.01	1 LB/MMBTU	TEST PROTOCOL	Ι.,	,			,	
WII-0400	WOLVERINE FOWER	0/29/2011	EMERGENCY POWER	Diesei	340	MINIBTU/H	operation was based on 500 nours per year.		0.01	LD/MINIDIU	SULFUR BY	· '	1				+
	MINNESOTA STEEL		GENERATION -					LIMITED HOURS, LIMITED SULFUR			WEIGHT IN						
MN-0070	INDUSTRIES, LLC	9/7/2007	DIESEL	DIESEL			(>500 HP, LARGE IC) THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF	IN FUEL	0.0	5 % SULFUR	FUEL				(
	FAIRBAULT ENERGY		EMERGENCY				THIS IS A 1/50 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A ' ' IC ENGINE, LARGE				3 HOUR						
MN-0071	PARK	6/5/2007	GENERATOR	NO. 2	1750	KW	FUEL OIL) IN MN-0053		0.000	4 LB/HP-H	AVERAGE	((,	
	OREGON CLEAN						Emergency diesel fired generator restricted to 500 hours of operation per rolling 12-										
*OH-0352	ENERGY CENTER	6/18/2013	Emergency generator EMERGENCY DIESEL	diesel	2250	KW	months.	USE OF LOW SULFUR NO.2 FUEL	0.03	3 LB/H		0.008	T/YR		()	
			INTERNAL					OIL COMBINED WITH GOOD									
	HUGO GENERATING		COMBUSTION					COMBUSTION PRACTICES AND									
OK-0118	STA	2/9/2007	ENGINES					LIMITED ANNUAL OPERATION		0	SEE NOTE	()		()	
OV. 0140	MID AMERICAN STEEL							500 hours per year, 0.05% sulfur diesel									
OK-0128	ROLLING MILL	9/8/2008	Emergency Generator	No. 2 diesel LOW	1200	HP		fuel	0.49	9 LB/H		0.0:	% SULFUR		-	1	
	CHOUTEAU POWER		EMERGENCY DIESEL	SULFUR										1	1		1
OK-0129	PLANT	1/23/2009	GENERATOR (2200 HP)) DIESEL	2200	HP		LOW SULFUR DIESEL 0.05%S	0.89	9 LB/H		()		()	
	ENERGY ANSWERS ARECIBO PUERTO																
	RICO RENEWABLE		Emergency Diesel	ULSD Fuel oil			Emergency Generator is rated at 670 BHP and is limited to 500 hr per year										
	ENERGY PROJECT	4/10/2014	Generator	# 2	0		(emergency and testing and maintenance, combined)			6 LB/H		((,	
								USE OF LOW SULFUR FUEL DIESEL	-9								
							THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF	SULFUR CONTENT LESS THAN 0.0015 PERCENT. OPERATING									
			EMERGENCY				EIGHT (8) IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND		,								
	PYRAMAX CERAMICS,		GENERATORS 1 THRU	ı			POLLUTANT INFORMATION IS FOR ONE SINGLE EMERGENCT	YEAR FOR MAINTENACE AND	`								
SC-0113	LLC	2/8/2012		DIESEL	757	HP	GENERATOR.	TESTING.		0		()		()	
			DIESEL EMERGENCY	n many			THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR						T/YR				
SC-0114	GP ALLENDALE LP	11/25/2008	GENERATOR	DIESEL	1400	HP	TESTING OR EMERGENCY PURPOSES. THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR		5.4	4 LB/H		1.33	1/YR		-	-	-
							TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL									
								BE PERFORMED AS OUTLINED IN									
00.0115	CD CL ADENDON I D	2/10/2006	DIESEL EMERGENCY GENERATOR	DIESEL	1400	IIID	THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF OPERATION PER YEAR.	THE GOOD MANAGEMENT		4 LB/H			T/YR				
SC-0115	GP CLARENDON LP ARGOS HARLEYVILLE	2/10/2005	EMERGENCY	DIESEL	1400	HP	OPERATION PER YEAR.	PRACTICE PLAN.	3.4	4 LB/H		1.3	1/YK	<u> </u>	-	1	+
*SC-0132	PLANT	12/14/2007	GENERATOR	DIESEL	1000	KW				0		((
							Two mergency diesel fired generators proposed. Each engine will be 4000 kW.										
							Ultra low sulfur fuel is burned in the engines to meet the sulfur requirement of 15 ppm in 40CFR80.510(b). Each emergency engine is being permitted for	Ultra low sulfur fuel engines burn will				1			1		1
				ultra low sulfur			maintenance and testing for maximum 100 hrs/yr. They are not being permitted for	meet the sulfur requirement of 15 ppm in									
*TX-0671	PROJECT JUMBO	12/1/2014	Engines	diesel fuel	0		the actual emergency emissions	40CFR80.510(b)	0.064	9 G/KW-HR		0.0	T/YR		(1
							The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500										
							horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides							1	1		1
							(NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited	ı									
							hours of operation. Emissions from the engine shall not exceed 0.0218 grams per										
							horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52										
							hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide										
							(CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra	_									
							low sulfur diesel). The engine is limited to 52 hours per year of non-emergency							1	1		1
							operation.							1	1		1
	PEONY CHEMICAL						Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and	1						1	1		1
	MANUFACTURING		Emergency Diesel				40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For							1	1		1
	FACILITY	4/1/2015	Generator	Diesel	1500	hp	Stationary Reciprocating Internal Combustion Engines.	Low sulfur fuel 15 ppmw	0.6	1 LB/H		0.00	T/YR				
								FUEL MUST SATISFY									
	BP CHERRY POINT		EMERGENCY					REQUIREMENTS OF ON-ROAD				1			1		1
WA-0328	COGENERATION PROJECT	1/11/2009	EMERGENCY GENERATOR	DIESEL FUEL	1.5	MW		DIESEL SPECIFICATIONS AT TIME OF FUEL PURCHASE	1 .	0				1	1	J	*SEE NOTES
	CHEYENNE PRAIRIE	1/11/200.			1.3			OI TOLD FORCIPUSE	<u> </u>			· '			1		555 199115
	GENERATING STATION		Diesel Emergency Generator (EP15)	Ultra Low		l.								1	1		1
*WY-0070				Sulfur Diesel	839	Uhn	1	Ultra Low Sulfur Diesel		n i	1	1 (11	1	1 (11	1

Table D-D-8 Sulfuric Acid Mist (H₂SO₄) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT		1		_				1	_					
		ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION	AVG TIME	STANDARAD		AVG TIME
RBLCID				FUEL	THROUGHPUT		PROCESS NOTES	DESCRIPTION		UNIT			UNIT CONDITION	EMISSION LIMIT		CONDITION
RDLCID		D.T.L.	TROCESSICENE	I CLL	i intocom ci	0.111				0.111			COMPTION	Emission Emili	0.112	CO.IDITIO.I
	BELLE RIVER						A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later				FUEL SUPPLIER					1
	COMBINED CYCLE		EUEMENGINE:				and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified	Good combustion practices, low sulfur			RECORDS OR					1
*MI-0435	POWER PLANT	7/16/2018		Diesel		MW	engine subject to NSPS IIII.	fuel.	15	PPM	TEST DATA	()	0		
			DIESEL-FIRED													1
			EMERGENCY													1
	GREENSVILLE POWER		GENERATOR 3000 kW					Ultra Low Sulfur Diesel/Fuel (15 ppm								1
*VA-0325	STATION	6/17/2016		DIESEL FUEL	3000 kW			max)	0.0001	LB/MMBTU	J	(0		
			PROPANE-FIRED													
			EMERGENCY													1
	GREENSVILLE POWER		GENERATORS 150 kW													1
*VA-0325	STATION	6/17/2016	(2)	PROPANE	3000 kW			use of low sulfur fuel	0.0001	LB/MMBTU	J			0		1
	SALEM HARBOR															
	STATION		Emergency				â‰□ 300 hours of operation per 12-month rolling period				1 HR BLOCK					1
*MA-0039	REDEVELOPMENT	1/30/2014	Engine/Generator	ULSD	750 KW	MMBtu/hr	S in ULSD: â‰□0.0015% by weight	Use of low sulfur fuel	0.0009	LB/H	AVERAGE			0		1 !
								USE OF ULTRA-LOW DIESEL								
	WILDCAT POINT							SULFUR FUEL, LIMITED HOURS OF	:							1
	GENERATION		EMERGENCY	ULTRA LOW			40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD	OPERATION AND DESIGNED TO			3-HOUR BLOCK					1
*MD-0042	FACILITY	4/8/2014	GENERATOR 1	SULFU DIESEL	225	KW	COMBUSTION PRACTICES	MEET SUBPART IIII LIMITS	0.006	G/HP-H	AVERAGE	1 (ol I	0		1
	CORNELL COMBINED								-							
	HEAT & POWER		EMERGENCY DIESEL	LOW SULFUR				ULTRA LOW SULFUR DIESEL AT 15	5	1						1
NY-0101	PROJECT	3/12/2008	GENERATORS (2)	DIESEL	100	KW	TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLY	PPM S	0.002	LB/H	MASS BALANCE	0.0009	G/HP-H	0		1

Table D-D-9 Greenhouse Gases (GHG) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KBLCID	FACILITY NAME	Black Start and	FUEL	THROUGHPUT	UNII	PROCESS NOTES	DESCRIPTION	LIMIT I	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
	DONLIN GOLD	Emergency Internal				Two (2) 600 kWe black start diesel generators and four (4)										
*AK-0084	PROJECT	6/30/2017 Cumbustion Engines EMERGENCY	Diesel	1500	kWe	1,500 kWe emergency diesel generators.	Good Combustion Practices	2781	TPY	YEARLY		0		-	0	
	MIDWEST	GENERATORS														
	FERTILIZER	(EU014A AND EU-	DISTILLATE						TON/12 CONSEC	:		.				
IN-0263	COMPANY LLC HOLBROOK	03/23/2017 ACT 014B)	OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	1044	MONTH	EACH	50	0 H/YR EACH		+	0	
	COMPRESSOR	Emergency Generators								ANNUAL						
LA-0292	STATION	1/22/2016 No. 1 & Do. 2	Diesel	1341	HP			77	TPY	MAXIMUM		0		-	0	
	LAKE CHARLES METHANOL	Diesel Engines														
LA-0305	FACILITY	6/30/2016 (Emergency)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	()			0			0	
	ST. JAMES	DEG1-13 - Diesel Fired Emergency Generator														
*LA-0312	METHANOL PLANT	6/30/2017 Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	84	TPY			ه			0	
	ST. CHARLES POWER	SCPS Emergency Diese	1													
LA-0313	STATION CAMERON LNG	8/31/2016 Generator 1 emergency generator	Diesel	2584	HP		Good combustion practices	()		_	0	_	+	0	
LA-0316	FACILITY	2/17/2017 engines (6 units)	diesel	3353	hp		good combustion practices	()			0			0	
	METHANEX -					I-GDE-1201, II-GDE-1201 = 2346 hp										
LA-0317	GEISMAR METHANOL PLANT	Emergency Generator 12/22/2016 Engines (4 units)	Diesel	0		I-GDE-1202 = 755 hp I-GDE-1203 = 1193 hp	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ)			0		1 .	0	
Lit OJI	METHEROETE ET	Emergency Diesel	Dieser			1 GDE 1200 1179 IIP	and to Clic of Suspine 2222	,							*	
	GRAYLING	Generator Engine (EUEMRGRICE in				0				BASED UPON A 12-MO ROLLING	.]					
MI-0421	GRAYLING PARTICLEBOARD	(EUEMRGRICE in 8/26/2016 FGRICE)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	Good combustion and design practices.	223	T/YR	TIME PERIOD	Ί	ol		1 .	0	
0121		0202010 1 01402)	1	300				22.	1	T.M. I LAGO				1		
						a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled				1						
	1					emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day,										1
		EUEMENGINE (Diesel				except during emergency conditions and stack testing, and 500				12-MO. ROLLING	3					
MI-0423	INDECK NILES, LLC	1/4/2017 fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	hours/year on a 12-month rolling time period basis.	Good combustion practices	928	T/YR	TIME PERIOD		0		-	0	
						A 260 brake horsepower (bhp) diesel-fueled emergency engine										
						manufactured in 2011 or later and a displacement of <10										
						liters/cylinder. Powers a fire pump used for a back up during										
		EUFPENGINE (Emergency engine				an emergency (EUFPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100				12 MO. ROLLING						
MI-0423	INDECK NILES, LLC	1/4/2017 diesel fire pump)	Diesel	1.66	MMBTU/H	hours/year on a 12-month rolling time period basis.	Good combustion practices	13.58	T/YR	TIME PERIOD	1	0			0	
	GRAYLING	EUEMRGRICE1 in FGRICE (Emergency				One emergency diesel generator engine rated at 1500 KW				12-MO ROLLING						
MI-0425	PARTICLEBOARD	5/9/2017 diesel generator engine)	Diesel	500	H/YR	(EUEMRGRICE1 in FGRICE).	Good combustion and design practices.	209	T/YR	TIME PERIOD		0			0	
	GRAYLING	EUEMRGRICE2 in FGRICE (Emergency				One emergency diesel generator engine rated at 1500 KW				12-MO ROLLING	.					
MI-0425	PARTICLEBOARD	5/9/2017 Diesel Generator Engine	Diesel	500	H/YR	(EUEMRGRICE2 in FGRICE).	Good combustion and design practices.	70	T/YR	TIME PERIOD		ه			o	
			1			A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency										
	MEC NORTH, LLC	EUEMENGINE (North				engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant										
	AND MEC SOUTH	Plant): Emergency				with Tier IV emission standards. Equipped with a diesel				12-MO. ROLLING	3					
*MI-0433	LLC	6/29/2018 Engine	Diesel	1341	HP	particulate filter.	Good combustion practices.	383	T/YR	TIME PERIOD		0			0	
						A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement										
	MEC NORTH, LLC	EUEMENGINE (South				of <10 liters/cylinder. The engine is designed to be compliant										
	AND MEC SOUTH	Plant): Emergency				with Tier IV emission standards. Equipped with a diesel				12-MO ROLLING	;					
*MI-0433	LLC	6/29/2018 Engine	Diesel	1341	HP	particulate filter.	Good combustion practices.	383	T/YR	TIME PERIOD		0		-	0	
	BELLE RIVER					A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10										
	COMBINED CYCLE	EUEMENGINE:				liters/cylinder. The engine is an EPA Tier 2 certified engine				12-MO ROLLING	;					
*MI-0435	POWER PLANT	7/16/2018 Emergency engine	Diesel	2	MW	subject to NSPS IIII.	Energy efficient design.	161	T/YR	TIME PERIOD	-	0	-	+ (0	+
	BEAUMONT	EMERGENCY					Equipment specifications and good combustion practices. Operation limited									1
TX-0799	TERMINAL	6/8/2016 ENGINES	diesel	0			to 100 hours per year.	6.79	T/YR			0		1	0	
		DIESEL-FIRED EMERGENCY								1						
	GREENSVILLE	GENERATOR 3000 kV	v										12 MO ROLLING	;		1
*VA-0325	POWER STATION	6/17/2016 (1)	DIESEL FUEL	0			Good Combustion Practices/Maintenance	163.6	LB/MMBTU		117	8 T/YR	TOTAL		0	
		PROPANE-FIRED EMERGENCY														
	GREENSVILLE	GENERATORS 150 kV	v										12 MO ROLLING	;		
*VA-0325	POWER STATION	6/17/2016 (2)	PROPANE	0			Good Combustion Practices/Maintenance	136.1	LB/MMBTU		12	1 T/YR	AVG		0	
	POINT THOMSON PRODUCTION	Cardinalia de St. 11					Good Combustion Practices and 40 CFR									
AK-0076	FACILITY	Combustion of Diesel by 8/20/2012 ICEs	ULSD	1750	kW	Diesel-fired generators	60 Subpart IIII requirements	()			0			0	
	POINT THOMSON			2730			, , , , , , , , , , , , , , , , , , , ,	,								
*AK-0082	PRODUCTION FACILITY	Emergency Camp 1/23/2015 Generators	Ultra Low Sulfu	2005	L.	Three 2,695 hp ULSD-fired Standby Camp Generator		222	TAND	COMBINED	1	ا] .		1
AK-0082	POINT THOMSON	1/23/2013 Generators	Diesel	2695	inp	Engines.	1	2332	T/YR	COMBINED	+	1	+	+ '	1	+
	PRODUCTION	Airstrip Generator	Ultra Low Sulfu													1
*AK-0082	FACILITY PODUT THOMSON	1/23/2015 Engine	Diesel	490	hp	One 490 hp Airstrip Generator Engine		163	T/YR			0		1	0	
	POINT THOMSON PRODUCTION	Bulk Tank Generator	Ultra Low Sulfu			Two ULSD-fired 891 hp Bulk Tank Storage Area Generator										1
			Diesel	891	hn	Engines	I	7194	T/YR	COMBINED		0		1	0	
*AK-0082	FACILITY	1/23/2015 Engines														
*AK-0082	FACILITY	1/23/2015 Engines	Diesei	02.												
*AK-0082	FACILITY	1/23/2015 Engines	Dieser			Kerr-McGee is proposing to install one 839 bhp diesel-fired emergency generator as part of this project. The generator										

Table D-D-9 Greenhouse Gases (GHG) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE PROCESS NAME	PRIMARY FUEL 1	THROUGHPUT	THROUGHPUT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	XINUTE.	AVG TIME CONDITION
RBLCID	FACILITY NAME	DATE PROCESS NAME	FUEL	THROUGHPUT	UNII	PROCESS NOTES	DESCRIPTION	LIMIT I	UNII	CONDITION	LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	LONDITION
	ENI - HOLY CROSS						Use of good combustion practices, based on the current manufacturer's			12-MONTH						
*FL-0328	DRILLING PROJECT	10/27/2011 Emergency Engine	Diesel	0		MAN D-2842 LE model engine	specifications for this engine	14.6	T/YR	ROLLING		0		0		
							Use of good combustion practices, based									
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	Emergency Fire Pump 10/27/2011 Engine	n: I			Detroit 8V-92 TA model engine	on the current manufacturer's specifications for this engine	2.0	T/YR	12-MONTH ROLLING						
*FL-0328	DRILLING PROJECT	10/2 //2011 Engine	Diesei	0		Detroit 8V-92 1A model engine		2.4	1/YK	ROLLING		0				-
							Use of good combustion practices based on the current manufacturer's									
							specifications for these engines, use of low sulfur diesel fuel, positive crankcase			PER YEAR 12						
		Emergency Generator					ventilation, turbocharger with aftercooler,			MONTH						
*FL-0338	SAKE PROSPECT DRILLING PROJECT	Diesel Engine - 5/30/2012 Development Driller 1	Diesel	2229	hp		high pressure fuel injection with aftercooler	77.84	T/YR	ROLLING TOTAL		0				
							Use of good combustion practices based									
							on the current manufacturer's									
							specifications for these engines, use of low sulfur diesel fuel, positive crankcase			PER YEAR 12						
	SAKE PROSPECT	Emergency Generator Diesel Engine - C.R.					ventilation, turbocharger with aftercooler, high pressure fuel injection with			MONTH ROLLING						
*FL-0338	DRILLING PROJECT	5/30/2012 Luigs	diesel	2064	hp	Caterpillar D3516A 1998	aftercooler	72.06	T/YR	TOTAL		0		0		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012 Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	788.5	T/YR	ROLLING 12 MONTH TOTAL		0		0		
	IOWA FERTILIZER									AVERAGE OF 3 STACK TEST						
IA-0105	COMPANY	10/26/2012 Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	1.55	G/KW-H	RUNS AVERAGE OF 3		0		0		
	IOWA FERTILIZER									STACK TEST						
IA-0105	COMPANY CF INDUSTRIES	10/26/2012 Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	0.0001	G/KW-H	RUNS		0		0		
	NITROGEN, LLC - PORT NEAL									AVERAGE OF THREE (3)						
	NITROGEN									STACK TEST						
*IA-0106	COMPLEX CF INDUSTRIES	7/12/2013 Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices	1.55	LB/KW-H	RUNS		0		0		
	NITROGEN, LLC - PORT NEAL									AVERAGE OF THREE (3)						
	NITROGEN									STACK TEST						
*IA-0106	COMPLEX CF INDUSTRIES	7/12/2013 Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices	0.0001	G/KW-H	RUNS		0		0	1	
	NITROGEN, LLC - PORT NEAL									ROLLING						
	NITROGEN									TWELVE (12)						
*IA-0106	COMPLEX CRONUS	7/12/2013 Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices Tier IV standards for non-road engines at	509	T/YR	MONTH TOTAL		0		0		
*IL-0114	CHEMICALS, LLC	9/5/2014 Emergency Generator TWO (2)	distillate fuel oil	3755	HP	THE TWO INTERNAL COMBUSTION ENGINES,	40 CFR 1039.102, Table 7.	432	T/YR	12		0		0		
	ST. JOSEPH ENEGRY	EMERGENCY DIESE				IDENTIFIED AS EG01 AND EG02, EXHAUST	GOOD ENGINEERING DESIGN AND			CONSECUTIVE						
*IN-0158	CENTER, LLC	12/3/2012 GENERATORS	DIESEL	1006	HP EACH	THROUGH TWO (2) VENTS.	FUEL EFFICIENT DESIGN GOOD ENGINEERING DESIGN AND	1186	T/YR	MONTH PERIOD		0		0	1	
	ST. JOSEPH ENEGRY	EMERGENCY DIESE	,			THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1)	FUEL EFFICIENT DESIGN POST COMBUSTION CARBON			12 CONSECUTIVE		HOURS OF				
*IN-0158	CENTER, LLC	12/3/2012 GENERATOR	DIESEL	2012	HP	VENT.	CAPTURE	1186	T/YR	MONTH PERIOD	50	0 OPERATION	YEARLY	0		
		TWO (2)					USE OF GOOD ENGINEERING DESIGN AND EFFICIENT ENGINES			TWELVE						
*IN-0166	INDIANA GASIFICATION, LLC	EMERGENCY 6/27/2012 GENERATORS	DIESEL	1241	HORSEPOWER, EACH	IDENTIFIED AS EU-009A AND EU-009B	MEETING APPLICABLE NSPS AND MACT STANDARDS		T/YR	CONSECUTIVE MONTHS						
*1N-0100	MIDWEST	DIESEL FIRED	DIESEL	1341	EACH	ANNUAL OPERATING HOURS SHALL NOT EXCEED	MACI STANDARDS	04	1/1K	MONTHS						
*IN-0173	FERTILIZER CORPORATION	EMERGENCY 6/4/2014 GENERATOR	NO. 2, DIESEL	3600	ВНР	500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	526.39	G/HP-H	3-HR AVERAGE		0		0		
	OHIO VALLEY	DIESEL-FIRED EMERGENCY				ANNUAL HOURS OF OPERATION NOT TO EXCEED										
*IN-0179	RESOURCES, LLC	9/25/2013 GENERATOR	NO. 2 FUEL OIL	4690	B-HP	200 HOURS. ANNUAL OPERATING HOURS SHALL NOT EXCEED	GOOD COMBUSTION PRACTICES	526.39	G/HP-H	3-HR AVERAGE		0		0		
	MIDWEST FERTILIZER	DIESEL FIRED EMERGENCY				500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE										
*IN-0180	CORPORATION NINEMILE POINT	6/4/2014 GENERATOR	NO. 2, DIESEL	3600	ВНР	TESTED.	GOOD COMBUSTION PRACTICES	526.39	G/HP-H	3-HR AVERAGE		0		0		
I A 0254	ELECTRIC	EMERGENCY DIESE	L	40.00	IIID		PROPER OPERATION AND GOOD	0.001	I DAGOTII					0.000	I DAMADTU	
LA-0254	GENERATING PLANT NINEMILE POINT		DIESEL	1250	nr		COMBUSTION PRACTICES	0.0014	LB/MMBTU					0.0014	LB/MMBTU	
LA-0254	ELECTRIC GENERATING PLANT	EMERGENCY DIESE 8/16/2011 GENERATOR	DIESEL	1250	HP		PROPER OPERATION AND GOOD COMBUSTION PRACTICES	163	LB/MMBTU			0		163	LB/MMBTU	
	NINEMILE POINT	EMERGENCY DIESE		1250			PROPER OPERATION AND GOOD	100						103		
LA-0254	GENERATING PLANT	8/16/2011 GENERATOR	DIESEL	1250	HP		COMBUSTION PRACTICES	0.0061	LB/MMBTU			0		0.0061	LB/MMBTU	
	AMMONIA PRODUCTION	EMERGENCY DIESE	L I			OPERATING TIME OF GENERATOR IS LIMITED TO										
*LA-0272	FACILITY SALEM HARBOR	3/27/2013 GENERATOR (2205-B) DIESEL	1200	HP	500 HR/YR.	ENERGY EFFICIENCY MEASURES	()	1		0		0		
	STATION	Emergency				â‰□ 300 hours of operation per 12-month rolling period										
*MA-0039	REDEVELOPMENT OREGON CLEAN	1/30/2014 Engine/Generator Emergency fire pump	ULSD		MMBtu/hr	S in ULSD: â%=0.0015% by weight 223.8 kW. Emergency fire pump engine restricted to 500			LB/MMBTU	PER ROLLING 12	2.	0		0	+ -	
*OH-0352	ENERGY CENTER OREGON CLEAN	6/18/2013 engine	diesel	300	HP	hours of operation per rolling 12 months. Emergency diesel fired generator restricted to 500 hours of		87	7 T/YR	MONTHS PER ROLLING 12		0		0		
*OH-0352	ENERGY CENTER	6/18/2013 Emergency generator	diesel	2250	KW	emergency diesel fired generator restricted to 500 nours or operation per rolling 12-months.		878	T/YR	MONTHS	1	0		0		
*PA-0291	HICKORY RUN ENERGY STATION	EMERGENCY 4/23/2013 GENERATOR	Ultra Low sulfur Distillate	7.8	MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		80.5	T/YR	12-MONTH ROLLING BASIS		0				

Table D-D-9 Greenhouse Gases (GHG) RBLC Search - Emergency Generator Invenergy, LLC - Allegheny County Energy Center Project

RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT		CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1		EMISSION LIMIT 2		AVG TIME CONDITION	STANDARAD EMISSION LIMIT	AVG TIME CONDITION
Ī	ENERGY ANSWERS														
	ARECIBO PUERTO						Emergency Generator is rated at 670 BHP and is limited to								
	RICO RENEWABLE		Emergency Diesel				500 hr per year (emergency and testing and maintenance,								
*PR-0009	ENERGY PROJECT	4/10/2014	Generator	ULSD Fuel oil # 2	(combined)		183	T/YR	0			0	
								Equipment specifications & work							
								practices -							
	GOLDEN PASS LNG		Emergency Engine					Good combustion practices and limited							
*TX-0766	EXPORT TERMINAL	9/11/2015	Generators	Diesel	750	hp	Six diesel engines at site.	operational hours	40	HR/YR	123	T/YR		0	
	MOUNDSVILLE														
	COMBINED CYCLE														
*WV-0025	POWER PLANT	11/21/2014	Emergency Generator	Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.		2416	LB/H	0			0	

		PERMIT ISSUANCE	PROCESS	PRIMARY		THROUGHPUT			EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID F	FACILITY NAME	DATE	NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION		UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
			Fire Pump Diesel Internal														
	DONLIN GOLD		Combustion								3-HOUR						
*AK-0084 P	PROJECT	6/30/2017	Engines	Diesel	252	hp	Three (3) 252 hp fire pump diesel internal combustion engines.	Good Combustion Practices	3.7	G/KW-HR	AVERAGE	0			(0	
			DFP1-13 - Diesel Fire														
	ST. JAMES		Pump Engine														
*LA-0312 N	METHANOL PLANT	6/30/2017	(EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NSPS Subpart IIII Compliance with NESHAP 40 CFR 63	6.6	LB/HR		0			-	0	
			SCPS					Subpart ZZZZ and NSPS 40 CFR 60									
			Emergency					Subpart IIII, and good combustion									
	ST. CHARLES POWER STATION	8/31/2016	Diesel Firewater	Diesel	282	НР		practices (use of ultra-low sulfur diesel fuel).	1.87	LB/H	HOURLY MAXIMUM	0.47	T/YR	ANNUAL MAXIMUM		G/BHP-H	
LA-0316 F	CAMERON LNG	2/17/2017	firewater pump engines (8 units)	diesel	460	ha		Complying with 40 CFR 60 Subpart IIII							Ι,	2	
	METHANEX -	2/1//201/	Firewater pump	ulesei	400	пр		Comprying with 40 CFK 00 Subpart III							<u> </u>		
	GEISMAR METHANOL PLANT	12/22/2016	Engines (4		007			complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ							l .		
LA-031 / N	METHANOL PLANT	12/22/2016	units)	diesel	896	hp (each)		and 40 CFR 63 Subpart ZZZZ	0						1)	
			Fire Water					Proper operation and limits on hours									
LA-0323 P	MONSANTO LULING		Diesel Pump No. 3 Engine	Diesel Fuel	600	hn	Emergency engine with a limit of 100 hours/yr on operating hours for ready testing.	operation for emergency engines and compliance with 40 CFR 60 Subpart IIII							Ι,	1	
LA-0323 I	LAN	1/3/201/		Diesel I dei	000	пр	nours for ready testing.								<u> </u>		
	MONSANTO LULING		Fire Water Diesel Pump					Proper operation and limits on hours of operation for emergency engines and			1						
LA-0323 P		1/9/2017	No. 4 Engine	Diesel Fuel	600	hp	Emergency Engine limited to 100 hours/yr for ready tests	operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	0		1	0				0	
			Dieself fire								TEST PROTOCOL						
c	GRAYLING		pump engine (EUFIREPUMP				One diesel fire pump engine rated at 400 KW (identified as				WILL SPECIFY						
	PARTICLEBOARD	8/26/2016		Diesel	500	H/YR	EUFIREPUMP in FGRICE).	Certified engines, limited operating hours.	3.53	LB/H	AVG TIME	0			(0	
							A 260 brake horsepower (bhp) diesel-fueled emergency engine										
							manufactured in 2011 or later and a displacement of <10										
			EUFPENGINE				liters/cylinder. Powers a fire pump used for a back up during				TEST PROTOCOL						
			(Emergency engine-diesel				an emergency (EUFPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100	Good combustion practices and meeting			WILL SPECIFY						
MI-0423 I	NDECK NILES, LLC	1/4/2017	fire pump)	Diesel	1.66	MMBTU/H	hours/year on a 12-month rolling time period basis.	NSPS Subpart IIII requirements.	3	G/BHP-H	AVG TIME	0			(0	
			EUFIREPUMP in FGRICE														
	GRAYLING		(Diesel fire				One diesel fire pump engine rated at 400 KW (EUFIREPUMP	Certified engines. Limited operating			TEST PROTOCOL						
MI-0425 P	PARTICLEBOARD	5/9/2017	pump engine) EUFPENGINE	Diesel	500	H/YR	in FGRICE).	hours.	3.53	LB/H	SHALL SPECIFY	0			(0	
N	MEC NORTH, LLC		(South Plant):				A 300 HP diesel-fired emergency fire pump engine with a										
	AND MEC SOUTH		Fire pump				model year of 2011 or later, and a displacement of <30	Good combustion practices and meeting							l .		
*MI-0433 L	LLC	6/29/2018	engine EUFPENGINE	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	NSPS Subpart IIII requirements.	3	G/BHP-H	HOURLY	0			1 '	0	
	MEC NORTH, LLC		(North Plant):				A 300 HP diesel-fired emergency fire pump engine with a										
*MI-0433 I.	AND MEC SOUTH	6/29/2018	Fire pump	Diesel	300	LID	model year of 2011 or later, and a displacement of <30 liters/cylinder. Equipped with a diesel particulate filter.	Good combustion practices and meeting NSPS Subpart IIII requirements.	,	G/BHP-H	HOURLY				Ι,	2	
WII-0433 L	LLC .	0/29/2018	EUFIREPUMPE	Diesei	300	III		NSF3 Subpart in requirements.	-	G/BHF-H					<u> </u>		
	T AT BOOK		NGS (2				EUFIREPUMPENGS - Two (2) diesel-fueled emergency fire				HOURLY; EACH ENGINE			HOURLY: EACH			
*MI-0434 /	FLAT ROCK ASSEMBLY PLANT	3/22/2018	emergency fire pump engines)	Diesel	250	ВНР	pump engines rated at 250 brake horsepower (BHP). No add- on control.	Good combustion practices.	3	G/B-HP-H	(NMHC+NOX)	2.8	LB/H	ENGINE (NOX)		0	
							A 399 brake HP diesel-fueled emergency fire pump engine	•			Ĭ			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			
	BELLE RIVER COMBINED CYCLE		EUFPENGINE: Fire pump				with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 3 certified engine				1						
	POWER PLANT	7/16/2018		Diesel	399	BHP	subject to NSPS IIII.	State of the art combustion design.	4	G/KW-H	HOURLY	0				0	
			DIESEL-FIRED														
c	GREENSVILLE		WATER PUMP	DIESEL													
	POWER STATION	6/17/2016	376 bph (1)	FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total)	Good Combustion Practices/Maintenance	0			0			-	0	
	KENAI NITROGEN OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	2.7 MMBtu/hr Diesel Fired Well Pump. Installed in 1966.	Limited Operation of 168 hr/yr.	4.41	LB/MMBTU	1	0			(
В	BLYTHE ENERGY														<u> </u>		
	PROJECT II VICTORVILLE 2	4/25/2007	FIRE PUMP EMERGENCY	DIESEL	303	HP		OPERATIONAL RESTRICTION OF 50	7.5	LB/H	-	0			-	0	
H	HYBRID POWER		FIREWATER				135 KW (182 hp) IC Diesel-fired Emergency Firewater Pump	HR/YR, OPERATE AS REQUIRED FOR									
CA-1191 P	PROJECT	3/11/2010	PUMP ENGINE EMERGENCY	DIESEL	135	KW	Engine	FIRE SAFETY TESTING EQUIPPED W/ A TURBOCHARGER	3.8	G/KW-HR		2.8	G/B-HP-H		-	0	
1	AVENAL ENERGY		FIREWATER					AND AN			1						
CA-1192 P	PROJECT	6/21/2011	PUMP ENGINE	DIESEL	288	HP		INTERCOOLER/AFTERCOOLER	3.4	G/B-HP-H		0			(0	
	MOUNTAINVIEW POWER COMPANY		EMERGENCY FIRE IC								1						
CA-1213 L		4/21/2006		DIESEL	375	ВНР			0			0			(0	
r	PALM BEACH		Two emergency				The permittee is authorized to construct a 1,000 gallon tank to	demonstrate compliance in accordance									
	RENEWABLE		diesel firewater				store ULSD fuel oil for use in the emergency diesel firewater	with the procedures given in 40 CFR 60,			1						
	ENERGY PARK		pump engines		250		pump engines.	Subpart IIII	1	G/B-HP-H	1		1	1	1		1

RBLCID	FACILITY NAME		PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
RBECID	PACIEITINAME	DATE	IVAINE	FOLL	TIIROCGIII CT	Citi	I ROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT	CHIS	AVERAGE OF 3	LIMIT 2	OMIS	CONDITION	Livili	CHIS	СОМИНОМ
TA 0105	IOWA FERTILIZER COMPANY	10/26/2012	Ciro Duma	diesel fuel	1.4	GAL/H	rated @ 235 KW	good combustion practices	2.75	G/KW-HR	STACK TEST RUNS	0.46	T/YR	ROLLING 12 MONTH TOTAL	l ,		
14-0103				dieser ider		GALII		TIER 3 ENGINE-BASED	3.73	G/RW-IIIC	KONS	0.17	1/110	MONTHIOTAL	<u> </u>	1	
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	GOOD COMBUSTION PRACTICES (GCP)	4	G/KW-HR	NOX+NMHC		,		١.,		
	CRONUS		Firewater Pump					Tier IV standards for non-road engines at									
*IL-0114	CHEMICALS, LLC	9/5/2014	TWO (2)	oil	373	hp		40 CFR 1039.102, Table 7.	3.5	G/KW-HR		()		1)	
	OT LOGENI EVEGNA		FIREWATER PUMP DIESEL				THE TWO FIREWATER PUMP ENGINES, IDENTIFIED AS	COMPAGE OF PROJECT CONTROLS					HOURS OF				
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC		ENGINES	DIESEL	371	BHP, EACH	FP01 AND FP02, EXHAUSTING THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	3	G/B-HP-H	3 HOURS	500	OPERATION	YEARLY			
	MIDWEST FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR.										
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP		500	HP	INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE	()				
			DIESEL-FIRED														
	OHIO VALLEY		EMERGENCY														
*IN-0179	RESOURCES, LLC MIDWEST	9/25/2013	WATER PUMP	OIL	481	BHP	ANNUAL OPERATION LIMITED TO 200 HR,	GOOD COMBUSTION PRACTICES	2.86	G/B-HP-H	3-HR AVERAGE	(-	-		
	FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR.										
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		500	HP	INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE	(1)	
	CRESCENT CITY		DIESEL FIRED					GOOD ENGINE DESIGN AND PROPER			HOURLY			ANNUAL			ANNUAL
LA-0192	POWER	6/6/2005	WATER PUMP				425 HP	OPERATING PRACTICES	8.9	LB/H	MAXIMUM	0.23	T/YR	MAXIMUM	9.:	G/B-HP-H	AVERAGE
								USE OF LOW-SULFUR FUELS,									
LA-0224	ARSENAL HILL POWER PLANT		DFP DIESEL FIRE PUMP	DIESEL	310	HP	EQT-016	LIMITING OPERATING HOURS AND PROPER ENGINE MAINTENANCE	9.61	LB/H	MAX						
	ELODAN DIG		r: n														
LA-0251	FLOPAM INC. FACILITY		Fire Pump Engines - 2 units	diesel	444	hp	each		5.82	LB/H		0.29	T/YR			G/HP-H	(NOX + NMHC)
	SALEM HARBOR STATION		Fire Pump				≤ 300 hours of operation per 12-month rolling period				1 HR BLOCK			1 HR BLOCK			
*MA-0039	REDEVELOPMENT	1/30/2014	Engine	ULSD	2.7	MMBtu/hr	S in ULSD: ≤0.0015% by weight		3	G/B-HP-H	AVG	2.44	LB/H	AVG)	
			INTERNAL COMBUSTION														
			ENGINE -														
			EMERGENCY FIRE WATER														
MD-0040	CPV ST CHARLES	11/12/2008	PUMP	DIESEL	300	HP			3	G/B-HP-H		())	
			EMERGENCY DIESEL	ULTRA-				EXCLUSIVE USE OF ULSD FUEL,									
			ENGINE FOR	LOW				GOOD COMBUSTION PRACTICES,									
*MD-0041	CPV ST. CHARLES	4/23/2014	FIRE WATER PUMP	SULFUR DIESEL	300	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	AND LIMITING THE HOURS OF OPERATION	3	G/B-HP-H	N/A		,		١.,		
			EMERGENCY DIESEL														
	WILDCAT POINT		ENGINE FOR	ULTRA LOW				LIMITED OPERATING HOURS, USE									
***********	GENERATION		FIRE WATER	SULFUR	477	· · · ·	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL	OF ULTRA- LOW SULFUR FUEL AND		C/D UD U		l .	CASTA II				
*MD-0042	FACILII Y	4/8/2014	EMERGENCY	DIESEL	477	nr	FUEL, GOOD COMBUSTION PRACTICES	GOOD COMBUSTION PRACTICES	1 3	G/B-HP-H		-	G/KW-H	 	<u> </u>	1	
	PERRYMAN		DIESEL ENGINE FOR	ULTRAL LOW				GOOD COMBUSTION PRACTICES,									
	GENERATING		FIRE WATER	SULFUR			40 CFR 60, SUBPART IIII, GOOD COMBUSTION	LIMITED HOURS OF OPERATION,									
*MD-0043	STATION	7/1/2014	PUMP 5	DIESEL	350	HP	PRACTICES	AND EXCLUSIVE USE OF ULSD	3	G/B-HP-H	-	4	G/KW-H	-	1 '		
			EMERGENCY	ULTRA													
	COVE POINT LNG		FIRE WATER PUMP	LOW SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL	GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE									
*MD-0044	TERMINAL		ENGINES	DIESEL	350	HP	FUEL, GOOD COMBUSTION PRACTICES	EMISSION LIMIT	3	G/B-HP-H	NOX + NMHC	4	G/KW-H	NOX + NMHC	"		
											TEST PROTOCOL;						
*MI-0400	WOLVERINE POWER	6/29/2011	Fire Pump	Diesel	420	HP	Maximum operation was based on 500 hours per year. This is a diesel fuel fired emergency backup fire mump. It has		3	G/B-HP-H	BACT/SIP/NSPS	('		
							a capacity of 315 hp, nameplate, and uses diesel fuel ASTM										
			EU-FPENGINE: Diesel fuel fired				D975 Grade 2-D S15.										
	THETFORD		emergency				Ultra low sulfur diesel fuel (15ppmw); 100 hours per year				TEST PROTOCOL						
#MT 0410	GENERATING STATION		backup fire	4:1 61		h	operation for maintenance and readiness testing. NSPS IIII and NESHAP ZZZZ.			G/B-HP-H	WILL SPECIFY AVG. TIME.					,	
*MI-0410	STATION	//25/2013	pump	diesel fuel	313	hp nameplate	A 165 hoursepower (hp) diesel-fueled emergency engine	sulfur diesel fuel.	3	G/B-HP-H	AVG. HME.	-	1	 	<u> </u>	1	
	HOLLAND BOARD		Emergency				manufactured in 2013, iwth a heat input of 1.35 MMBTU/hr. Powers a fire pump used for back up during an emergency										
	OF PUBLIC WORKS -		EngineDiesel Fire Pump				(EUFPENGINE). Restricted to 500 hours/year on a 12-month										
*MI-0412	EAST 5TH STREET	12/4/2013	(EUFPENGINE)	Diesel	165	HP	rolling time period basis.	Good combustion practices	3	G/B-HP-H	TEST PROTOCOL	(L)	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
			IC ENGINE,														
	FORSYTH ENERGY		EMERGENCY FIREWATER	DIESEL													calculated, assumes
NC-0101	PLANT PSEG FOSSIL LLC	9/29/2005	PUMP	FUEL	11.4	MMBTU/H	usage limited to 200 h/yr		36.48	LB/H		()		7.7	G/B-HP-H	48% efficiency
	SEWAREN			Ultra Low			The fire pump has a maximum heat input rate of 2.63										
*NIL0081	GENERATING STATION	3/7/2014	Emergency diesel fire pump	Sulfur Distillate oil		,	MMBtu/hr (approximately 250 HP) and is permitted for 100 hrs per year for testing and maintenance		1.75	LB/H							
143-0001	BIATION	3/1/2014	dieser me pump	Distillate on			SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-		1.7.5	LDFT		(
							RESETTABLE HOUR METER PRIOR TO STARTUP PER 40										
							CFR 60.4209(A)	GOOD COMBUSTION PRACTICES,									
								GOOD ENGINE DESIGN, IGNITION									
	OHIO RIVER CLEAN		FIRE PUMP	DIESEL			CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR	TIMING RETARD, TURBOCHARGER, AND LOW-TEMPERATURE			FOR EACH			PER ROLLING 12-			FOR NMHC AND NOX COMBINED
OH-0317	FUELS, LLC	11/20/2008	ENGINES (2)	FUEL OIL	300	HP	AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	AFTERCOOLER	4.89	LB/H	ENGINE	1.23	T/YR	MONTH PERIOD	7.8	G/HP-H	95% NOX
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency fire pump engine	diesel	300	HP	223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per rolling 12 months.	Purchased certified to the standards in NSPS Subpart IIII	1.7	LB/H		0.43	T/YR	PER ROLLING 12- MONTHS	0	,	SEE NOTES
			EMERGENCY FIRE PUMP	LOW													
	CHOUTEAU POWER		(267-HP	SULFUR													
OK-0129	PLANT MOXIE LIBERTY	1/23/2009	DIESEL)	DIESEL	267	HP			4.59	LB/H		7.8	G/B-HP-H	NSPS	0		
	LLC/ASYLUM						The fire pump will be restricted to operate not more than 100										
PA-0278	POWER PL T MOXIE ENERGY	10/10/2012	Fire Pump Fire Pump	Diesel	C	1	hr/yr.		2.6	G/B-HP-H		2.6	LB/H		2.6	G/B-HP-H	
	LLC/PATRIOT GENERATION PLT	1/31/2013	Engine - 460	n: 1					2.0	G/B-HP-H	EXPRESSED AS NO2		LB/H		0.12	T/YR	
*PA-0286	GENERATION PLI	1/31/2013	ВНР	Diesel		1			2.6	G/B-HP-H	NO2	2.0	LB/H		0.13	I/YK	
			EMERGENCY	ULTRA LOW													
	HICKORY RUN		FIREWATER	SULFUR										12 MONTH			
*PA-0291	ENERGY STATION	4/23/2013	PUMP	DISTILLATE	3.25	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)		1.86	LB/H		0.09	T/YR	ROLLING TOTAL	0		
	BERKS HOLLOW										BASED ON 12-						
*PA-0296	ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr			0.09	T/YR	MONTH ROLLING TOTAL		,		0	,	
	ENERGY ANSWERS ARECIBO PUERTO		Emergency				The Emergency Fire Pump is rated at 335 BHP and limited to										
	RICO RENEWABLE		Diesel Fire	ULSD Fuel			500 hr/yr (emergency operations and testing and maintenance,										
*PR-0009	ENERGY PROJECT	4/10/2014	Pump	Oil #2	C		combined). THE CONSTRUCTION PERMIT AUTHORIZES THE		2.85	G/B-HP-H		2.1	LB/H		0		
							CONSTRUCTION OF ONE (1) FIRE PUMP. THIS										
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	FIRE PUMP	DIESEL	500	HP	PROCESS AND POLLUTANT INFORMATION IS FOR THIS ONE SINGLE FIRE PUMP.	PURCHASE OF CERTIFIED ENGINE BASED ON NSPS, SUBPART IIII.	4	G/KW-HR			,		0	,	
	,						The process includes 1 emergency generator and 4 emergency	,									
							firewater pump engines. The sulfur in the diesel fuel will meet										
							the sulfur requirement of 15 ppm in 40 CFR 80.510(b).										
	NATURAL GAS		Emergency	Ultra-low			The emissions from each engine result from weekly testing										
*TX-0706	FRACTIONATION MOUNDSVILLE	1/23/2014	Engines	sulfur diesel	0		which will occur 52 hours a year for each engine.		0.33	T/YR		(0		
	COMBINED CYCLE POWER PLANT		Fire Pump													G/HP-HR	NMHC + NOX
*WV-0025	CHEYENNE PRAIRIE	11/21/2014	Diesel Fire	Diesel	251	HP	Limited to 100 Hours/year.		0			(3	G/HP-HR	NMHC + NOX
*WY-0070	GENERATING STATION	8/28/2012	Pump Engine (FP16)	Ultra Low Sulfur Diesel	327	hn		EPA Tier 3 rated								,	
**1-00/0	MIDWEST	0/20/2012			32/			LITTER STREET	<u> </u>			<u> </u>			T .		
*IN-0180	FERTILIZER CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	OPERATION NOT TO EXCEED 500 HOURS PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE	(,		0	,	
	DETROIT EDISON						Fact and a second of 252 HD. The second district day							ODS & ODA E A CIL			
	DETROIT EDISON MONROE	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	252	HP	Each pump engine is 252 HP. They are limited to emergency use and subject to NSPS Subpart IIII.	Good combustion practices.	7.8	G/B-HP-H	QP1&QP2 EACH; TEST PROTOCOL	3	G/B-HP-H	QP3&QP4 EACH; TEST PROTOCOL	0		
	MIDWEST FERTILIZER		RAW WATER	DIESEL, NO.			OPERATION NOT TO EXCEED 500 HOURS PER YEAR.										
*IN-0173	CORPORATION	6/4/2014		2	500	HP	INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE	(0		
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel		_		Clean Fuel	3.44	lb/MMBtu	3-hr block average		lbs/hr	3-hour block average			
				Ultra Low													
	Catoctin Power LLC Footprint Power Salem		Firewater Pump	Sulfur Diesel	370	kW		Good Combustion Practices	11.5	LB/H	3-hr average	100	hr/yr				
	Harbor Development		Eino Dur	III en	90	MMBtu/hr		Dinalina quality NG	2.44	LB/H	1 he orror		a/hn b-	1 be aware			
	Footprint Power Salem		Fire Pump	ULSD	00	IVEVIDUU/III		Pipeline quality NG	2.44	LD/II	1-hr average	1	g/hp-hr	1-hr average			
	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	4	g/KW-hr	1-hr average						
	12.2		r ne r ump	10200		IBrown	1	p sperme quanty 110	, ,	15/ AC 11-III	average	-		1	-		-

RBLCID			PRIMARY FUEL		THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1			EMISSION LIMIT 2		AVG TIME	STANDARD EMISSION LIMIT	AVG TIME CONDITION
	CPV Valley Energy Center Wawayanda, NY	Fire Pump	ULSD	325	bhp		Good combustion controls.	0.857	lb/MMBtu	1-hr average					
	Cricket Valley Energy Center		ULSD	2.8	MMBtu/hr				lb/MMBtu	.,	2.6	g/hp-hr			
	Pioneer Valley Energy Center	Fire Pump	ULSD	270	HP			4	g/KW-hr						
	Hess Newark Energy Center Woodbridge Energy		ULSD Ultra Low	270	HP			1.55	LB/H		0.16	tpy			
	Center Center	Fire Wate Pump						1.93	LB/H		0.096	tpy			

		PERMIT				THE OWNER OF THE OWNER OWNER OF THE OWNER OW		CONTROL	рыностол		ANG TO THE	PARCETON		LVIO TTO	STANDARD		ANO TO TO
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
DECID	THE PROPERTY OF THE PARTY OF TH	Ditte	Fire Pump Diesel Internal	TRUMENT TOLL	I I I I I I I I I I I I I I I I I I I	0.111	Three (3) 252 hp	Good Combustion	2.1	0.415	3-HOUR	1.1.1112	0.410	CONDITION	2.3.72.2	0.1115	COMPTION
AK-0084	DONLIN GOLD PROJECT	6/30/2017	Combustion Engines	Diesel	252	hp	fire pump diesel	Practices	3.3	G/KW-HR	AVERAGE	0			0		
	OKEECHOBEE CLEAN		One 422-hp emergency fire pump					Use of clean engine									
FL-0356	ENERGY CENTER DANIA BEACH ENERGY	3/9/2016	Emergency Fire Pump Engine	ULSD	0		to NSPS Subpart IIII Limits equal	technology	3.5	G / KW-HR		0		-	0		
FL-0363	CENTER	12/4/2017	(422 hp)	ULSD	0		Subpart IIII limits	Certified engine	3.5	G / KWH		0			0		
	ST. JAMES METHANOL		DFP1-13 - Diesel Fire Pump				Operating hour	Compliance with									
*LA-0312	PLANT ST. CHARLES POWER	6/30/2017	Engine (EQT0013)	Diesel	650	horsepower	limit: 100 hr/yr	NSPS Subpart IIII	0.9	LB/HR	HOURLY	0		ANNUAL	0		
LA-0313	STATION	8/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	282	HP		Compliance with NESHAP 40 CFR 63	1.62	LB/H	MAXIMUM	0.4	T/YR	MAXIMUM	2.6	G/BHP-H	
	CAMERON LNG							Complying with 40									
LA-0316	FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	460	hp		CFR 60 Subpart IIII	0			0		-	0		
LA-0317	METHANEX - GEISMAR METHANOL PLANT	12/22/2016	Firewater pump Engines (4 units)	diesel	896	hp (each)		complying with 40 CFR 60 Subpart IIII	0			0			0		
LP-0317	MONSANTO LULING	12/22/2010	Fire Water Diesel Pump No. 3	dieser	0,0	np (cacii)	Emergency engine	Proper operation and									
LA-0323	PLANT	1/9/2017	Engine	Diesel Fuel	600	hp	with a limit of 100	limits on hours	0			0			0		
LA-0323	MONSANTO LULING PLANT	1/9/2017	Fire Water Diesel Pump No. 4 Engine	Diesel Fuel	600	1	Emergency Engine limited to 100	Proper operation and limits on hours of									
LA-0323	GRAYLING	1/9/201/	Dieself fire pump engine	Diesei Fuei	600	np	One diesel fire	Good design and	0		TEST	0		TEST	0		
MI-0421	PARTICLEBOARD	8/26/2016	(EUFIREPUMP in FGRICE)	Diesel	500	H/YR	pump engine rated	combustion practices.	3.5	G/KW-H	PROTOCOL	3.09	LB/H	PROTOCOL	0		
			EUFPENGINE (Emergency				A 260 brake	Good combustion			TEST						
MI-0423	INDECK NILES, LLC GRAYLING	1/4/2017	engine-diesel fire pump) EUFIREPUMP in FGRICE	Diesel	1.66	MMBTU/H	horsepower (bhp) One diesel fire	practices and meeting Good design and	2.6	G/BHP-H	PROTOCOL TEST	0		TEST	0		
MI-0425	PARTICLEBOARD	5/9/2017	(Diesel fire pump engine)	Diesel	500	H/YR	pump engine rated	combustion practices.	3.5	G/KW-H	PROTOCOL	3.09	LB/H	PROTOCOL	0		
	MEC NORTH, LLC AND		EUFPENGINE (South Plant):				A 300 HP diesel-	Good combustion									
*MI-0433	MEC SOUTH LLC	6/29/2018	Fire pump engine	Diesel	300	HP	fired emergency fire		2.6	G/BPH-H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUFPENGINE (North Plant): Fire pump engine	Diesel	300	HP	A 300 HP diesel-	Good combustion practices and meeting	2.6	G/BHP-H	HOURLY	0			0		
MI-0433	BELLE RIVER	0/22/2018	r ne pump engine	Diesei	500		A 399 brake HP	State of the art	2.0	G/DIII-II	HOURET				1		
*MI-0435	COMBINED CYCLE	7/16/2018	EUFPENGINE: Fire pump engine	Diesel	399	BHP	diesel-fueled	combustion design.	3.5	G/KW-H	HOURLY	0			0		
NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING	2/10/2016	n n in n	ULSD	100	H/YR	Maximum heat	use of ULSD a clean		LB/H							
NJ-0084	CRICKET VALLEY	3/10/2016	Emergency Diesel Fire Pump	ULSD	100	H/YK	Input Rate = 2.6	burning fuel, and Compliance	1.1	LB/H		0		+	0		
NY-0103	ENERGY CENTER	2/3/2016	Emergency fire pump	ultra low sulfur diesel	460	hp		demonstrated with	0.53	G/BHP-H	1 H	0			0		
	CPV FAIRVIEW ENERGY						Sulfur content of										
*PA-0310	CENTER	9/2/2016	Emergency Fire Pump Engine	ULSD	0		diesel fuel shall not	Equipment	2.61	G/BHP-HR		0			0		
TX-0799	BEAUMONT TERMINAL	6/8/2016	Fire pump engines	diesel	0			specifications and	0.0055	LB/HP-HR		0			0		
	GREENSVILLE POWER		DIESEL-FIRED WATER PUMP				FWP-1: 104.0	Good Combustion									
*VA-0325	STATION	6/17/2016	376 bph (1)	DIESEL FUEL	0		tons/year (12-month	Practices/Maintenance	2.6	G/HP-H	HR	0			0		
							2.7 MMBtu/hr Diesel Fired Well										
	KENAI NITROGEN						Pump. Installed in	Limited Operation of									
*AK-0083	OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	1966.	168 hr/yr.	0.95	LB/MMBTU		0			0		
CA-1144	BLYTHE ENERGY PROJECT II	4/25/2007	FIRE PUMP	DIESEL	303	HP			0.7	LB/H		0					
CA-1144	PROJECT II	4/23/2007	PIKE FOWIF	DESEL	303	III			0.7	LD/11		0			1		
								OPERATIONAL									
							135 KW (182 hp) IC Diesel-fired	RESTRICTION OF 50 HR/YR, OPERATE	'								
							Emergency	AS REQUIRED FOR									
	VICTORVILLE 2 HYBRID		EMERGENCY FIREWATER				Firewater Pump	FIRE SAFETY									
CA-1191	POWER PROJECT	3/11/2010	PUMP ENGINE	DIESEL	135	KW	Engine	TESTING EQUIPPED W/ A	3.5	G/KW-HR		2.6	G/B-HP-H	_	0		
								TURBOCHARGER									
								AND AN						1			
	AVENAL ENERGY		EMERGENCY FIREWATER					INTERCOOLER/AFT									
CA-1192	PROJECT	6/21/2011	PUMP ENGINE	DIESEL	288	HP	The permittee is	ERCOOLER	0.447	G/B-HP-H		0	1	1	0		
							authorized to							1			
							construct a 1,000							1			
							gallon tank to store ULSD fuel oil for	demonstrate						1			
							use in the	compliance in			1			1			
	PALM BEACH						emergency diesel	accordance with the						1			
	RENEWABLE ENERGY		Two emergency diesel firewater		l		firewater pump	procedures given in 40					1				
FL-0324	PARK	12/23/2010	pump engines		250	HP	engines.	CFR 60, Subpart IIII	2.6	G/B-HP-H	-	0	1		0	-	
							THERE ARE 4						1				
							IDENTICAL FIRE							1			
							PUMP ENGINES ASSOCIATED							1			
							WITH THIS							1			
							PROJECT. ALL							1			
							OF THE UNITS	GOOD			AVERAGE OF			ROLLING 12			
A-0084	ADM POLYMERS	11/30/2006	FIRE PUMP ENGINE	DIESEL FUEL	460	HP	HAVE THE SAME EMISSION LIMITS	DRACTICES	26	G/B-HP-H	THREE (3) TEST RUNS	0.78	T/YR	MONTH TOTAL	l ₀		
1-0004	ADM FOLTMERS	111/30/2000	IT INC. I OWIT ENGINE	DIEGEL FUEL	1700	1111	PINTOSION PROHITS	p restricted	14.0	O/D-11F-11	TIPOT KONO	10.70	11/11	LIGIAL	I v	1	ı

		PERMIT						CONTROL							ISTANDARD	1	
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	METHOD	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
							COMPRESSION	TIER 3 ENGINE-									
							IGNITION	BASED,									
	LANGLEY GULCH						INTERNAL COMBUSTION (CI	GOOD COMBUSTION									
ID-0018	POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	ICE)	PRACTICES (GCP)	0		SEE NOTE	0			0		
115 0010	TO WEST LESS TO	0.23.2010	THE TOM ENGLE	DILOCE	200		ICL)	Tier IV standards for			BEETIGIE						
								non-road engines at 40									
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Firewater Pump Engine	distillate fuel oil	373	hp		CFR 1039.102, Table	3.5	G/KW-HR		0			0		
LL OIII	LLC	37372011	Thewater rump Engine	distribute rater on	373	The state of the s	THE TWO	,,	0.0	GHEW THE							
							FIREWATER PUMP ENGINES,										
							IDENTIFIED AS										
							FP01 AND FP02,										
							EXHAUSTING	COMBUSTION									
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS.	DESIGN CONTROLS AND USAGE LIMITS	26	G/B-HP-H		500	HOURS OF OPERATION	VEADIV	0		
114-0136	CENTER, EEC	12/3/2012	DESEE ENGINES	DILGEL	371	Bill, Each	OPERATION	AND CSAGE EIMITS	2.0	G/D-III-II		500	OFERATION	TEAKET	ľ		
							LIMITED TO 500 HOURS PER										
							YEAR.										
							INSIGNIFICANT	GOOD									
	MIDWEST FERTILIZER						ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP		500	HP	NOT BE TESTED. ANNUAL	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
							OPERATION	GOOD									
	OHIO VALLEY		DIESEL-FIRED EMERGENCY				LIMITED TO 200	COMBUSTION			3-HR						
*IN-0179	RESOURCES, LLC	9/25/2013	WATER PUMP	NO. 2 FUEL OIL	481	ВНР	HR, OPERATION	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
							LIMITED TO 500										
							HOURS PER										
							YEAR.	GOOD									
	MIDWEST FERTILIZER						INSIGNIFICANT ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		500	HP	NOT BE TESTED.	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
								GOOD ENGINE									
								DESIGN AND PROPER									
								OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	CRESCENT CITY POWER	6/6/2005	DIESEL FIRED WATER PUMP				425 HP	PRACTICES	1.88	LB/H	MAXIMUM	0.05	T/YR	MAXIMUM	2.01	G/B-HP-H	AVERAGE
								USE OF LOW- SULFUR FUELS,									
								LIMITING									
								OPERATING HOURS									
	ARSENAL HILL POWER							AND PROPER ENGINE									
LA-0224	PLANT	3/20/2008	DFP DIESEL FIRE PUMP	DIESEL	310	HP	EQT-016	MAINTENANCE	2.07	LB/H	MAX	0			0		
								good equipment									
LA-0251	FLOPAM INC. FACILITY	4/26/2011	Fire Pump Engines - 2 units	diesel	444	hp	each	design and proper combustion practices	0.65	LB/H		0.03	T/YR		0		
								ULTRA LOW	-								
	NINEMILE POINT							SULFUR DIESEL AND GOOD									
	ELECTRIC GENERATING							COMBUSTION						ANNUAL			
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	2.6	G/B-HP-H	LB/MM BTU	2.6	G/HP-H	AVERAGE			
							â‰ 300 hours of operation per 12-										
							month rolling										
							period			1						1	
	SALEM HARBOR						S in ULSD:										
*MA-0039	STATION REDEVELOPMENT	1/30/2014	Fire Pump Engine	ULSD	27	MMBtu/hr	≤0.0015% by weight		2.6	G/B-HP-H	1 HR BLOCK AVG	2.14	LB/H	1 HR BLOCK AVG	0		
IVIA-0039	KLDEVELOFMENT	1/30/2014	INTERNAL COMBUSTION	CLOD	2.7	WINDU/III	weight		2.0	G/B-HF-H	AVU	2.14	LD/11	AvG			
		I	ENGINE - EMERGENCY FIRE		I										1.		
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP	DIESEL	300	HP	40 CFR 60,	-	2.6	G/B-HP-H		0	+	-	0		
							SUBPART IIII,			1						1	
							ULTRA LOW-	USE OF ULTRA		1						1	
							SULFUR DIESEL	LOW SULFUR									
ı	Í.		EMERGENCY DIESEL ENGINE	III TO A LONGOU FUR			FUEL, GOOD COMBUSTION	DIESEL AND GOOD COMBUSTION						1			

		DEDMIT						CONTROL							CT AND A DP		
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	ULTRA LOW SULFUR DIESEL	477	HP	40 CFR 60, SUBPART IIII, ULTRA LOW- SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES 40 CFR 60,	USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND HOURS OF OPERATION LIMITED TO 100 HOURS PER YEAR	2.6	G/B-HP-H		3.49	G/KW-H		0		
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	5 EMERGENCY FIRE WATER PUMP ENGINES	ULTRA LOW SULFUR DIESEL	350	НР	SUBPART IIII, ULTRA LOW- SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES OPERATIONAL	GOOD COMBUSTION PRACTICES AND DESIGNED TO MEET EMISSION LIMIT	3	G/B-HP-H		4	G/KW-H		0		
MI-0389	KARN WEADOCK GENERATING COMPLEX	12/29/2009	FIRE PUMP	ULTRA LOW SULFUR DIESEL	525	НР	LIMITS: 1 HOUR/DAY AND 500 HRS/YEAR FOR PM2.5 NAAQS. OPERATIONAL	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL	2.6	G/B-HP-H	TEST METHOD	0			0		
MI-0389	KARN WEADOCK GENERATING COMPLEX	12/29/2009	FIRE BOOSTER PUMP	ULTRA LOW SULFUR DIESEL	40	KW	LIMITS 1 HR/DAY AND 500 HRS/YR FOR PM2.5 NAAQS.	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	5	G/KW-HR	TEST METHOD	0			0		
	THETFORD GENERATING STATION	7/25/2013	EU-FPENGINE: Diesel fuel fired emergency backup fire pump	diesel fuel	315	hp nameplate	This is a diesel fuel fired emergency backup fire mump. It has a capacity of 315 hp, nameplated and uses diesel fuel ASTM D975 Grade 2-D S15. Ultra low sulfur diesel fuel (15pmw); 100 hours per year operation for maintenance and readiness testing, NSFS IIII and NSESHAP ZZZZ.	Proper combustion design and ultra low sulfur diesel fuel.	2.6	G/B-HP-H	TEST PROTOCOL WILL SPECIFY AVG. TIME.	0			0		
	HOLLAND BOARD OF PUBLIC WORKS - EAST		Emergency Engine Diesel Fire				A 165 hoursepower (hp) dissel-fueled cemergency engine manufactured in 2013, invih a heat input of 1.35 MMBTU/hr. Powers a fire pump used for back up during an emergency (EUFPENGINE). Restricted to 500 hours/year on a 12-month rolling time	Good combustion			TEST						
*MI-0412 *MS-0092	5TH STREET EMBERCLEAR GTL MS	12/4/2013 5/8/2014	Pump (EUFPENGINE) Eight 325 hp diesel firewater pumps	Diesel	165 325	HP	period basis.	practices	0	G/B-HP-H	PROTOCOL	0			0		
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	IC ENGINE, EMERGENCY FIREWATER PUMP	DIESEL FUEL	11.4	MMBTU/H	usage limited to 200 h/yr The lire pump has a maximum heat input rate of 2.63 MMBtu/hr (approximately 250 HP) and is		9.69	LB/H		0			2.05	G/B-НР-Н	calculated, assumes 48% efficiency
	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	Emergency diesel fire pump	Ultra Low Sulfur Distillate oil	0		permitted for 100 hrs per year for testing and maintenance		0.079	LB/H		2.6	G/B-HP-H		0		

Table D-E-2 Carbon Monoxide (CO) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT						CONTROL							ISTANDARD		
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	METHOD	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
							SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON- RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60.4209(A)										
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	FIRE PUMP ENGINES (2)	DIESEL FUEL OIL	300	НР	DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	1.72	LB/H	FOR EACH ENGINE	0.43	T/YR	PER ROLLING 12-MONTH PERIOD	2.6	б/нр-н	FROM TABLE 4 OF SUBPART III
	OREGON CLEAN						223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per rolling 12	Purchased certified to the standards in NSPS	1.72		ENGINE			PER ROLLING	2.0	0/11/41	
*OH-0352	ENERGY CENTER CHOUTEAU POWER	6/18/2013	Emergency fire pump engine EMERGENCY FIRE PUMP (267-	diesel	300	HP	months.	Subpart IIII	1.7	LB/H		0.43	T/YR	12-MONTHS	0		SEE NOTES
OK-0129	PLANT	1/23/2009	HP DIESEL)	LOW SULFUR DIESEL	267	HP	The fire pump will		2.6	G/B-HP-H	NSPS	0			0		
	MOXIE LIBERTY LLC/ASYLUM POWER PL						be restricted to operate not more										
PA-0278	MOXIE ENERGY	10/10/2012	Fire Pump	Diesel	0		than 100 hr/yr.		0.5	G/B-HP-H		0.51	LB/H		0.5	G/B-HP-H	
*PA-0286	LLC/PATRIOT GENERATION PLT	1/31/2013	Fire Pump Engine - 460 BHP	Diesel					0.5	G/B-HP-H		0.51	LB/H		0.03	T/YR	
TA-0200		1/31/2013			0		EMERGENCY		0.5	G/B-IIF-II		0.51	Lb/II	12-MONTH	0.03	1/ 1 K	
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	EMERGENCY FIREWATER PUMP	ULTRA LOW SULFUR DISTILLATE	3.25	MMBTU/H	FIREWATER PUMP (450 BHP)		2.58	LB/H		0.13	T/YR	ROLLING TOTAL	0		
	BERKS HOLLOW ENERGY ASSOC										BASED ON 12- MONTH ROLLING						
*PA-0296	LLC/ONTELAUNEE	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr	The Emergency Fire	:	0.09	T/YTR	TOTAL	0			0		+
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Fire Pump	ULSD Fuel Oil #2	335	bhp	Pump is rated at 335 BHP and limited to 500 hr/yr (emergency operations and testing and maintenance, combined).		2.6	G/B-HP-H		1.93	LB/H		0		
1 K-0007	1 ROJEC I	T 10/2014	Lancagoney Diesei File Fump	OLSD Fuel Oil #2	333	опр	CONSTRUCTION		2.0	G/D-HF-H		1./3	LO/11		V		\vdash
SC-0113	PYRAMAX CERAMICS,	2/8/2012	FIRE PUMP	DIESEL	500	НР	PERMIT AUTHORIZES THE CONSTRUCTION OF ONE (1) FIRE PUMP. THIS PROCESS AND POLLUTANT	ENGINES CERTIFIED TO MEET NSPS, SUBPART IIII. HOURS OF OPERATION LIMITED TO 100 HOURS PER YEAR FOR MAINTENANCE AND TESTING.	3.5	G/KW-HR		0			0		
ac-0113	MOUNDSVILLE	2/0/2012	PIKE FUMP	DIESEL	300	III		AND LESTING.	3.3	G/KW-FIK		U	†		U		
*WV-0025	COMBINED CYCLE POWER PLANT CHEYENNE PRAIRIE	11/21/2014	Fire Pump Engine	Diesel	251	НР	Limited to 100 Hours/year.		1.44	LB/H		0			0		
*WY-0070	GENERATING STATION	8/28/2012	Diesel Fire Pump Engine (EP16)	Ultra Low Sulfur Diesel	327	hp		EPA Tier 3 rated	0			0			0		

		PERMIT				1		CONTROL							STANDARD		
		ISSUANCE				THROUGHPUT		METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
							OPERATION NOT					1	1				
							TO EXCEED 500										
							HOURS PER										
							YEAR.										
							INSIGNIFICANT	GOOD									
	MIDWEST FERTILIZER						ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0180	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	NOT BE TESTED.	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
							Each pump engine										
							is 252 HP. They are limited to										
	DETROIT EDISON						emergency use and subject to NSPS	Good combustion			EACH PUMP; TEST						
*MI-0399	MONROE	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	252	HP		practices.	2.6	G/B-HP-H	PROTOCOL	0					
*W11-0399	MONROE	12/21/2010	4 Diesei-fired quench pumps	Diesei tuei	232	nr	Subpart IIII. OPERATION NOT	practices.	2.0	G/В-ПР-П	PROTOCOL	0	_		0		
							TO EXCEED 500										
							HOURS PER										
							YEAR.										
							INSIGNIFICANT	GOOD									
	MIDWEST FERTILIZER						ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0173	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	NOT BE TESTED.	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel				Clean Fuel	0.18	lb/MMBtu	1-hr average		LB/H	1-hour average			
								Good Combustion									
	Catoctin Power LLC Footprint Power Salem		Firewater Pump	Ultra Low Sulfur Diesel	370	kW		Practices	2.5	LB/H	3-hr average	100	hr/yr				
	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	2.14	LB/H	1-hr average	2.6	g/b-hp-hr	1-hr average			
	Footprint Power Salem	-	rire rump	ULSD	80	WIWIDIU/III		Pipenne quanty NG	2.14	LB/II	1-nr average	2.0	g/ b-np-nr	1-nr average			
1	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	3.5	g/KW-hr	1-hr average			1			
	CPV Valley Energy Center	.	The Lamp	CLOD				Good combustion		B/ 12III	uverage	 	1	 			
	Wawayanda, NY		Fire Pump	ULSD	325	bhp		controls.	0.75	lb/MMBtu	1-hr average	1					
	Cricket Valley Energy																
	Center		Fire Pump	ULSD	2.8	MMBtu/hr			0.19	lb/MMBtu		0.53	g/b-hp-hr				
	Hess Newark Energy																
	Center		Fire Pump	ULSD	270	HP			1.55	LB/H		0.16	T/YR		2.60	G/HP-H	
	Woodbridge Energy Center		Fire Wate Pump	Ultra Low Sulfur Diesel					2.6	G/B-HP-H		1.81	LB/H				

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	FMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL		UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS		LIMIT	UNITS	CONDITION
LA-0276	BATON ROUGE JUNCTION FACILITY	12/15/2016	Fire Pump Engines (2 units)	Diesel	700	hp		Comply with standards of NSPS Subpart IIII	0			0			(
*LA-0312	ST. JAMES METHANOL PLANT		DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NNSPS Subpart	0.13	LB/HR					,		
	ST. CHARLES POWER		SCPS Emergency Diesel				Operating nour limit: 100 nr/yr	IIII			HOURLY			ANNUAL	,	1	
LA-0313	STATION CAMERON LNG	8/31/2016	Firewater Pump 1	Diesel	282	HP		Good combustion practices Complying with 40 CFR 60 Subpart		LB/H	MAXIMUM	0.47	T/YR	MAXIMUM	()	-
LA-0316	FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	460	hp		III				0			()	
MI-0423	INDECK NILES, LLC	1/4/2017	EUFPENGINE (Emergency enginediesel fire pump)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later	Good combustion practices	0.64	LB/H	TEST PROTOCOL	0			(
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC		EUFPENGINE (South Plant):	n: 1	300		A 300 HP diesel-fired emergency fire pump engine with a model year of 2011 or later, and a			LB/H	HOURLY						
	MEC NORTH, LLC AND		Fire pump engine EUFPENGINE (North Plant):	Diesel			A 300 HP diesel-fired emergency fire pump	Good combustion practices.				† °			,	,	
*MI-0433	MEC SOUTH LLC BELLE RIVER	6/29/2018	Fire pump engine	Diesel	300	HP	engine with a model year of 2011 or later, and a A 399 brake HP diesel-fueled emergency fire	Good combustion practices	0.75	LB/H	HOURLY	0			(
*MI-0435	COMBINED CYCLE	7/16/2018	EUFPENGINE: Fire pump engine	Diesel	399	ВНР	pump engine with a model year of 2011 or later,	State of the art combustion design.	0.13	LB/H	HOURLY	0			()	
TX-0799	BEAUMONT TERMINAL	6/8/2016	Fire pump engines	diesel				Equipment specifications and good combustion practices. Operation	0.0007	LB/HP-HR					,		
	GREENSVILLE POWER		DIESEL-FIRED WATER PUMP					Good Combustion	0.0007						,		
*VA-0325	STATION KENAI NITROGEN	6/17/2016	376 bph (1)	DIESEL FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total) 2.7 MMBtu/hr Diesel Fired Well Pump.	Practices/Maintenance	3	G/HP-H	PER HR	0			()	
*AK-0083	OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	Installed in 1966. THERE ARE 4 IDENTICAL FIRE PUMP	Limited Operation of 168 hr/yr.	0.36	LB/MMBTU		0			()	
							ENGINES ASSOCIATED WITH THIS							ROLLING 12			1
IA-0084	ADM POLYMERS	11/30/2006	FIRE PUMP ENGINE	DIESEL FUEL	460	НР	PROJECT. ALL OF THE UNITS HAVE THE SAME EMISSION LIMITS	GOOD COMBUSTION PRACTICES		G/B-HP-H	3 1-H TEST RUNS	1.65		MONTH TOTAL	,	,	
14-0004		11/30/2000	TIKETOWI ENGINE	DIESEE TOLL	400	111	SAME EMISSION EMITS	TRACTICES		G/D-III-II	AVERAGE OF 3	1.00		ROLLING 12	,		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.25	G/KW-HR	STACK TEST RUNS	0.03	T/YR	MONTH TOTAL	(
	LANGLEY GULCH						COMPRESSION IGNITION INTERNAL	TIER 3 ENGINE-BASED, GOOD COMBUSTION									
ID-0018	POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	COMBUSTION (CLICE)	PRACTICES (GCP)	4	G/KW-HR	NOX+NMHC	0			()	
	CRONUS CHEMICALS,			distillate fuel				Tier IV standards for non-road engines at 40 CFR 1039.102, Table									
*IL-0114	LLC	9/5/2014	Firewater Pump Engine	oil	373	hp		7.		G/KW-HR		0			()	
							THE TWO FIREWATER PUMP ENGINES,						HOURS OF				
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/2/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	DIESEL	271	BHP, EACH	IDENTIFIED AS FP01 AND FP02, EXHAUSTING THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.14	LB/H		500	OPERATIO	YEARLY	,		
114-0136		12/3/2012	DIESEE ENGINES	DIESEL	3/1	BIII, LACII	OPERATION LIMITED TO 500 HOURS PER		0.10	LD/II		300		TEARET	,		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	FIRE PUMP		500	HP	YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE				(,	
*IN-0179	OHIO VALLEY RESOURCES, LLC	0/25/2012	DIESEL-FIRED EMERGENCY WATER PUMP	NO. 2 FUEL	481	DIID	ANNUAL OPERATION LIMITED TO 200 HR.	GOOD COMBUSTION PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE				,		
*IN-01/9	<u> </u>	9/23/2013	WATER PUMP	OIL	481	БПР	OPERATION LIMITED TO 500 HOURS PER		0.141	G/В-ПР-П	3-FIR AVERAGE				,	,	
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	FIRE PUMP		500	НР	YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0 141	G/B-HP-H	3-HR AVERAGE				,		
11,0100	Cold Gld IIIo.	0.0201	THE TOM		500	***	NOT DE TESTES.		0.111	GD III II	J III / I / LIC IO				,		
								GOOD ENGINE DESIGN AND PROPER OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	CRESCENT CITY POWER	6/6/2005	DIESEL FIRED WATER PUMP				425 HP	PRACTICES USE OF LOW-SULFUR FUELS.	0.05	LB/H	MAXIMUM	0.001	T/YR	MAXIMUM	0.05	G/B-HP-H	AVERAGE
								LIMITING OPERATING HOURS									
LA-0224	ARSENAL HILL POWER PLANT	3/20/2008	DFP DIESEL FIRE PUMP	DIESEL	310	НР	EQT-016	AND PROPER ENGINE MAINTENANCE	0.77	LB/H	MAX					,	
	NINEMILE POINT ELECTRIC GENERATING							ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION			ANNUAL						ANNUAL
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	1	G/B-HP-H	AVERAGE	0			1	G/HP-H	AVERAGE
				ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW-	USE ONLY ULSD, GOOD COMBUSTION PRACTICES, AND									
	COVE POINT LNG		5 EMERGENCY FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	DESIGNED TO ACHIEVE									1
*MD-0044	TERMINAL	6/9/2014	PUMP ENGINES	DIESEL	350	HP	COMBUSTION PRACTICES	EMISSION LIMIT	3	G/B-HP-H	NOX + NMHC	4	G/KW-HR	NOX + NMHC	(
							This is a diesel fuel fired emergency backup fire mump. It has a capacity of 315 hp, nameplate,										
							and uses diesel fuel ASTM D975 Grade 2-D										1
							S15.										
	THETEONE		EVI EDENION E TO A CO				Ultra low sulfur diesel fuel (15ppmw); 100 hours										
*MI-0410	THETFORD GENERATING STATION	7/25/2013	EU-FPENGINE: Diesel fuel fired emergency backup fire pump	diesel fuel	315	hp nameplate	per year operation for maintenance and readiness testing. NSPS IIII and NESHAP ZZZZ.	Proper combustion design and ultra low sulfur diesel fuel.	0			0				,	1
							A 165 hoursepower (hp) diesel-fueled emergency	,									
							engine manufactured in 2013, iwth a heat input										
	HOLLAND BOARD OF						of 1.35 MMBTU/hr. Powers a fire pump used for back up during an emergency										1
WAT 0412	PUBLIC WORKS - EAST	10/4/0010	Emergency EngineDiesel Fire Pump (EUFPENGINE)	Dissel		LID	(EUFPENGINE). Restricted to 500 hours/year	Good combination of	0.00	I D/II	TEST PROTOCOL						
*MI-0412	5TH STREET	12/4/2013	prump (EUFPENGINE)	Diesei	165	nr	on a 12-month rolling time period basis.	Good combustion practices	0.001	LB/H	PROTOCOL	0	1	l	('1	1

		PERMIT													STANDARD		
		ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME			AVG TIME
RBLCID			PROCESS NAME		THROUGHPUT	UNIT				UNITS		LIMIT 2	UNITS	CONDITION		UNITS	CONDITION
ì			Eight 325 hp diesel firewater							ĺ				İ			
*MS-0092	EMBERCLEAR GTL MS	5/8/2014	pumps	diesel	325	hp			0			0)		0		
	FORSYTH ENERGY		IC ENGINE, EMERGENCY														
NC-0101	PLANT	9/29/2005	FIREWATER PUMP	DIESEL FUEL	11.4	MMBTU/H	usage limited to 200 h/yr		1.04	LB/H		0)		0		
							The fire pump has a maximum heat input rate of										
	PSEG FOSSIL LLC			Ultra Low			2.63 MMBtu/hr (approximately 250 HP) and is										
	SEWAREN GENERATING			Sulfur Distillate			permitted for 100 hrs per year for testing and										
*NJ-0081	STATION	3/7/2014	Emergency diesel fire pump	oil	()	maintenance SUBJECT TO NSPS SUBPART IIII. WILL		0.119	LB/H		0)		0		
							INSTALL NON-RESETTABLE HOUR METER										
							PRIOR TO STARTUP PER 40 CFR										
							60.4209(A)										
							DIESEL FUEL SHALL MEET THE										
							REQUIREMENTS OF 40 CFR 80.510 AND										
							60.4207: SULFUR CONTENT OF 15 PPM										
								GOOD COMBUSTION						PER ROLLING			FOR NMHC AND
I	OHIO RIVER CLEAN			DIESEL FUEL			MINIMUM OR AROMATIC CONTENT OF 35				FOR EACH			12-MONTH			NOX COMBINED,
OH-0317	FUELS, LLC	11/20/2008	FIRE PUMP ENGINES (2)	OIL	300	HP		DESIGN	0.26	LB/H	ENGINE	0.07	T/YR	PERIOD	7.8	G/HP-H	5% NMHC
							223.8 kW. Emergency fire pump engine										
	OREGON CLEAN			l				Purchased certified to the standards					T/YR	PER ROLLING			
*OH-0352	ENERGY CENTER	6/18/2013	Emergency fire pump engine	diesel	300	HP	12 months.	in NSPS Subpart IIII	0.25	LB/H		0.06	1/YR	12-MONTHS	- 0	1	SEE NOTES
	CHOUTEAU POWER		EMERGENCY FIRE PUMP (267-	I OW CITI FUD													
OK-0129	PLANT	1/22/2000	HP DIESEL)	DIESEL.		HP		GOOD COMBUSTION	0.00	LB/H		1 .	J	1			
OK-0129	MOXIE LIBERTY	1/23/2009	THE DIESEL)	DIESEL	26.	nr		GOOD COMBUSTION	0.66	LD/II		1 0	<u>'</u>	1	- 0		
	LLC/ASYLUM POWER PL						The fire pump will be restricted to operate not			1		1	1	1			
PA-0278	T T T T T T T T T T T T T T T T T T T	10/10/2012	Fire Pump	Diesel	1 ,	,	more than 100 hr/vr.		0.1	G/B-HP-H			LB/H	1			
PA-02/8	MOXIE ENERGY	10/10/2012	rire rump	Diesei	<u> </u>	,	more than 100 nr/yr.		0.1	∪/В-ПР-Н		0.1	LD/fl	1	- "	-	
	LLC/PATRIOT									1		1	1	1			
*PA-0286	GENERATION PLT	1/21/2012	Fire Pump Engine - 460 BHP	Diesel	1 ,	\ \			0.1	G/B-HP-H		0.1	LB/H		0.01	T/YR	
FA-0280	OENEKATION PLI	1/31/2013	True rump raigide - 400 BHP	Diesei	1	4			0.1	O/D-HP-II	1	0.1	LD/11	1	0.01	1/1K	

		PERMIT													STANDARD		
DDI CID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	XINDRO.	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS		EMISSION LIMIT	UNITS	AVG TIME CONDITION
RBLCID	FACILITY NAME	DATE	PROCESS NAME		THROUGHPUT	UNII	PROCESS NOTES	DESCRIPTION	LIMITI	UNITS	CONDITION	LIMIT 2	UNITS		LIMIT	UNITS	CONDITION
	HICKORY RUN ENERGY		EMERGENCY FIREWATER	ULTRA LOW SULFUR										A 12-MONTH ROLLING			
*PA-0291	STATION	4/23/2013		DISTILLATE	3.25	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)		1.11	LB/H		0.06	T/YR	TOTAL		0	
											BASED ON 12-						
	BERKS HOLLOW ENERGY ASSOC										MONTH ROLLING						
*PA-0296	LLC/ONTELAUNEE	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr			0.013	T/YR	TOTAL		,			0	
	ENERGY ANSWERS																
	ARECIBO PUERTO RICO RENEWABLE ENERGY			ULSD Fuel Oil			The Emergency Fire Pump is rated at 335 BHP and limited to 500 hr/yr (emergency operations										
*PR-0009	PROJECT	4/10/2014	Emergency Diesel Fire Pump	#2			and testing and maintenance, combined).		0.15	G/B-HP-H		0.11	LB/H		١,	0	
110005	TROSECT	17.00.201	Emergency Dieser Fire Fump	"-	,		and testing and manifestance, commonly.		0.13	G/D 111 11		0.11	LDI			1	
							THE CONSTRUCTION PERMIT	CERTIFIED ENGINES THAT COMPLY WITH NSPS, SUBPART									
							AUTHORIZES THE CONSTRUCTION OF	IIII. HOURS OF OPERATION									
							ONE (1) FIRE PUMP. THIS PROCESS AND	LIMITED TO 100 HOURS PER									
	PYRAMAX CERAMICS,						POLLUTANT INFORMATION IS FOR THIS	YEAR FOR MAINTENANCE AND									
SC-0113	LLC	2/8/2012	FIRE PUMP	DIESEL	500	HP	ONE SINGLE FIRE PUMP. THREE (3) 211 KW/282 BHP (EACH)	TESTING.	4	G/KW-HR		(0	
							EMERGENCY DIESEL FIRE PUMPS THAT	BACT HAS BEEN DETERMINED									
								TO BE COMPLIANCE WITH									
			FIRE PUMPS, FIRE1, FIRE2,				100 HOURS PER YEAR OR LESS FOR	NSPS, SUBPART IIII, 40									
SC-0159	US10 FACILITY	7/9/2012	FIRE3	DIESEL	211	KW	TESTING AND MAINTENANCE.	CFR60.4202 AND 40 CFR60.4205.	4	G/KW-HR		-				0	
							The process includes 1 emergency generator and										
							4 emergency firewater pump engines. The sulfur										
							in the diesel fuel will meet the sulfur										
							requirement of 15 ppm in 40 CFR 80.510(b).										
							The emissions from each engine result from										
	NATURAL GAS			Ultra-low sulfur			weekly testing which will occur 52 hours a year										
*TX-0706	FRACTIONATION	1/23/2014	Emergency Engines	diesel	(for each engine.		0.03	T/YR		(0	
	MOUNDSVILLE COMBINED CYCLE																
*WV-0025	POWER PLANT	11/21/2014	Fire Pump Engine	Diesel	251	HP	Limited to 100 Hours/year.		0.17	LB/H			,		١ ,	0	
							OPERATION NOT TO EXCEED 500 HOURS										
	MIDWEST FERTILIZER					HP	PER YEAR. INSIGNIFICANT ACTIVITY,	GOOD COMBUSTION									
*IN-0180	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	WILL NOT BE TESTED. OPERATION NOT TO EXCEED 500 HOURS	PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE		1		<u> </u>	0	
	MIDWEST FERTILIZER						PER YEAR. INSIGNIFICANT ACTIVITY,	GOOD COMBUSTION				1					
*IN-0173	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	WILL NOT BE TESTED.	PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE	(0	
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel				Clean Fuel	0.11	lb/MMBtu	1-hr average	1					
	Footprint Power Salem	+	гие гишр	Sullur Diesel				Cican ruel	0.11	10/MMDtu	1-nr average	+		1			
	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	2.44	LB/H	1-hr average	1 3	g/b-hp-hr	1-hr average			
	Footprint Power Salem		r: p	I II GD		10 m. 1		N. P. D. MO		arm i							
<u> </u>	Harbor Development LP CPV Valley Energy Center	+	Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	4	g/KW-hr	1-hr average	+	-	+			+
	Wawayanda, NY		Fire Pump	ULSD	325	bhp		Good combustion controls.	0.3612	lb/MMBtu	1-hr average	1					
	Cricket Valley Energy																
——	Center		Fire Pump	ULSD	2.8	MMBtu/hr			0.035	lb/MMBtu		0.09	g/b-hp-hr	12-month			
	Tenaska Partners LLC		Fire Pump	ULSD	575	HP			0.11	LB/H		0.03	T/YR	12-month rolling			
	Hess Newark Energy Center		Fire Pump	ULSD	27/	НР			0.22	LB/H		0.00	T/YR				
				Ultra Low	2/0	111											
	Woodbridge Energy Center	<u> </u>	Fire Wate Pump	Sulfur Diesel					0.074	lb/MMBtu	<u> </u>	0.16	LB/H	<u> </u>			

Table D-E-4 Particulate Matter (PM) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT													STANDARD		
RRI CID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME	EMISSION LIMIT 2	UNITS	AVG TIME	EMISSION LIMIT	UNITS	AVG TIME CONDITION
KBLCID		DATE	Fire Pump Diesel	FUEL	THROUGHPUT	UNII	PROCESS NOTES	DESCRIPTION	LIMIT I	UNITS	condition	LIMIT 2	UNIIS	CONDITION	LIMII	UNIIS	CONDITION
	DONLIN GOLD		Internal Combustion			l.	Three (3) 252 hp fire pump diesel internal combustion	Clean Fuel and Good Combustion			3-HOUR				l .		
*AK-0084	PROJECT OKEECHOBEE	6/30/2017	One 422-hp	Diesel	252	hp	engines.	Practices	0.1	9 G/KW-HR	AVERAGE		0		-)	
	CLEAN ENERGY		emergency fire pump				BACT limits equal to NSPS Subpart IIII limits. Will use								l .		
FL-0356	CENTER	3/9/2016	engine	ULSD)	IIII certified engine.	Use of clean fuel	0.	2 G / KW-HR			0		()	+
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	Emergency Fire Pump	ULSD			ri s and america	0.45.1		2 G / KWH					l ,		
*FL-0363	ENERGY CENTER	12/4/2017	Engine (422 hp) Dieself fire pump	ULSD		,	Limits equal Subpart IIII limits	Certified engine	0.	2 G / KWH			0			,	
	GRAYLING		engine (EUFIREPUMP in				One diesel fire pump engine rated at 400 KW	Certified engines, good design, operation and combustion practices.			TEST PROTOCOL WILL SPECIFY			TEST PROTOCOL WILL SPECIFY			
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	500	H/YR	(identified as EUFIREPUMP in FGRICE).	Operational restrictions/limited use.	0.1	8 LB/H	AVG TIME	0	.2 G/KW-H	AVG TIME	()	
							A 260 brake horsepower (bhp) diesel-fueled emergency										
							engine manufactured in 2011 or later and a										
							displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency										
			EUFPENGINE				(EUFPENGINE). Restricted to 1 hour/day, except	Good combustion practices and			TEST PROTOCOL						
MI-0423	INDECK NILES, LLC	1/4/2017	(Emergency engine diesel fire pump)	Diesel	1.66	MMBTU/H	during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	meeting NSPS Subpart IIII requirements.	0.1	5 G/BHP-H	WILL SPECIFY AVG TIME.		0		l ,	,	
WII-0423	INDECK NILES, LLC	1/4/201/		Diesei	1.00	WINIB I C/II	nours/year on a 12-month forming time period basis.	1	0.1	J G/BHF-H	AVG TIME.		0			,	
	GRAYLING		EUFIREPUMP in FGRICE (Diesel fire				One diesel fire pump engine rated at 400 KW	Certified engines. Good design, operation and combustion practices.			TEST PROTOCOL			TEST PROTOCOL			
MI-0425	PARTICLEBOARD	5/9/2017	pump engine)	Diesel	500	H/YR	(EUFIREPUMP in FGRICE).	Operational restrictions/limited use.	0.1	8 LB/H	SHALL SPECIFY	0	.2 G/KW-H	SHALL SPECIFY)	
	MEC NORTH, LLC		EUFPENGINE (South				A 300 HP diesel-fired emergency fire pump engine with	Diocal particulate filter acad									
	AND MEC SOUTH		Plant): Fire pump				a model year of 2011 or later, and a displacement of <30	combustion practices and meeting									
*MI-0433	LLC	6/29/2018	engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	NSPS Subpart IIII requirements.	0.1	5 G/BHP-H	HOURLY		0		()	
	MEC NORTH, LLC		EUFPENGINE (North				A 300 HP diesel-fired emergency fire pump engine with	Diesel particulate filter, good									
*MI-0433	AND MEC SOUTH LLC	6/29/2018	Plant): Fire pump	Diesel	200	HP	a model year of 2011 or later, and a displacement of <30		0.1	5 G/BHP-H	HOURLY				l ,		
*WII-0455		0/29/2018	engine	Diesei	300	nr	liters/cylinder. Equipped with a diesel particulate filter. A 399 brake HP diesel-fueled emergency fire pump	NSPS Subpart till requirements.	0.1	э С/ВПР-П	HOURLY		0			,	
	BELLE RIVER COMBINED CYCLE		EUFPENGINE: Fire				engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an										
*MI-0435	POWER PLANT	7/16/2018	pump engine	Diesel	399	ВНР	EPA Tier 3 certified engine subject to NSPS IIII.	State of the art combustion design	0.	2 G/KW-H	HOURLY		0		()	
	PSEG FOSSIL LLC SEWAREN																
	GENERATING		Emergency Diesel					use of ULSD a clean burning fuel,									
NJ-0084	STATION	3/10/2016	Fire Pump	ULSD	100	H/YR	Maximum heat Input Rate = 2.6 MMBtu/hr	and limited hours of operation	0.	1 LB/H			0		()	
								Compliance demonstrated with									
	CRICKET VALLEY			ultra low sulfur				vendor emission certification and adherence to vendor-specified									
NY-0103	ENERGY CENTER	2/3/2016	Emergency fire pump		460	hp		maintenance recommendations.	0.08	7 G/BHP-H	1 H		0		()	
	CPV FAIRVIEW		Emergency Fire Pump				Sulfur content of diesel fuel shall not exceed 15 ppm, operation of engine shall not exceed 100 hr on a 12-										
*PA-0310	ENERGY CENTER	9/2/2016	Engine	ULSD	()	month rolling basis.		0.1	5 G/BHP-HR			0		()	
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2015	Diesel Fired Well	Diesel	2.7	MMBtu/hr	2.7 MMBtu/hr Diesel Fired Well Pump. Installed in 1966.	Limited Operation of 168 hr/vr.	0.3	1 LB/MMBTU			0)	
7112 0003		170/2015	i '	Diesei	2.,	Minipa iii	1700.	OPERATIONAL RESTRICTION	0.0	LBMMBTO					,		
	VICTORVILLE 2 HYBRID POWER		EMERGENCY FIREWATER PUMP				135 KW (182 hp) IC Diesel-fired Emergency Firewater	OF 50 HR/YR, OPERATE AS REQUIRED FOR FIRE SAFETY									
CA-1191	PROJECT	3/11/2010		DIESEL	135	KW	Pump Engine	TESTING USE ULTRA LOW SULFUR	0.	2 G/KW-H	1	0.1	5 G/HP-H		()	
								FUELNOT TO EXCEED 15									
	AMENIAL PARENCE:		EMERGENCY					PPMVD FUEL SULFUR,									
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	FIREWATER PUMP ENGINE	DIESEL	288	HP		OPERATIONAL LIMIT OF 50 HRS/YR		0			0)	
	PALM BEACH		Two emergency diesel				The permittee is authorized to construct a 1,000 gallon	demonstrate compliance in									
FL-0324	RENEWABLE ENERGY PARK	12/23/2010	firewater pump engines		250	HP	tank to store ULSD fuel oil for use in the emergency diesel firewater pump engines.	accordance with the procedures given in 40 CFR 60, Subpart IIII	0.1	5 G/HP-H			0)	
	LAUDERDALE									GRAM PER							
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD	29	MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice	0.	GRAM PER 2 HP-HR			0)	
											AVERAGE OF 3			DOLL DIG 12			
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.	2 G/KW-H	STACK TEST RUNS	0.0	3 TONS/YR	ROLLING 12 MONTH TOTAL)	
		. ,,						TIER 3 ENGINE-BASED,									
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	GOOD COMBUSTION PRACTICES (GCP)	0.	2 G/KW-H			0				
								Tier IV standards for non-road									
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Firewater Pump Engine	distillate fuel o	i 373	hp		engines at 40 CFR 1039.102, Table 7.	0.	1 G/KW-HR			0		(
	ST. JOSEPH		TWO (2)				THE TWO FIREWATER PUMP ENGINES.										
	ST. JOSEPH ENEGRY CENTER,		TWO (2) FIREWATER PUMP				THE TWO FIREWATER PUMP ENGINES, IDENTIFIED AS FP01 AND FP02, EXHAUSTING	COMBUSTION DESIGN					HOURS OF				
*IN-0158	LLC	12/3/2012	DIESEL ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS.	CONTROLS AND USAGE LIMITS	0.1	5 G/HP-H		50	00 OPERATION	YEARLY	()	

Table D-E-4 Particulate Matter (PM) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

RBLCID FACILITY NAME	PERMIT															
RBLCID FACILITI NAME	ISSUANCE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
MIDWEST	DATE	I ROCESS NAME	FOEL	mkocom cr	CHI	OPERATION LIMITED TO 500 HOURS PER YEAR.	DESCRIPTION	Limit	0.413	COMMITTON	Eliviii 2	Citilis	CONDITION	LIMIT	OHIIS	COMBINON
FERTILIZER						INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0173 CORPORATION	6/4/201	FIRE PUMP		500	0 HP	TESTED.	PRACTICES	1 .).15 G/BHP-H	3-HR AVERAGE				1 ,		
EV-0175 CORTORATION	0/4/201	DIESEL-FIRED		300	0 111	TESTED.	TRACTICES		7.13 G/BHI-11	3-IIICAVEICAGE	<u> </u>	<u> </u>		 	1	
OHIO VALLEY		EMERGENCY					GOOD COMBUSTION									
*IN-0179 RESOURCES, LLC	9/25/2013	WATER PUMP	NO. 2 FUEL O	481	1 BHP	ANNUAL OPERATION LIMITED TO 200 HR,	PRACTICES	1).15 G/B-HP-H	3-HR AVERAGE	())	
MIDWEST						OPERATION LIMITED TO 500 HOURS PER YEAR.										
FERTILIZER						INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0180 CORPORATION	6/4/201	FIRE PUMP		500	0 HP	TESTED.	PRACTICES).15 G/B-HP-H	3-HR AVERAGE	()		()	
		INTERNAL														
		COMBUSTION														
		ENGINE -														
MD-0040 CPV ST CHARLES	11/12/200	EMERGENCY FIRE WATER PUMP	DIESEL	200	0 HP			I .).15 G/HP-H					l .		
MD-0040 CPV ST CHARLES	11/12/2008	EMERGENCY	DIESEL	300	U HP			-).15 G/HP-H		(,		<u> </u>	,	+
		DIESEL ENGINE					EXCLUSIVE USE OF ULTRA									
		FOR FIRE WATER				40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR	LOW SULFUR FUEL AND GOOD									
*MD-0041 CPV ST. CHARLES	S 4/23/2014		ULTRA-LOW S	300	0 HP	DIESEL FUEL, GOOD COMBUSTION PRACTICES	COMBUSTION PRACTICES	1 .).15 G/HP-H	N/A				1 (
MB 0011 CI V BI. CIII MCEE	0.25/201	10	OLITATEOW !	500	, III	BESEET CELL, GOOD COMBOSTION TRUCTICES	EXCLUSIVE USE OF ULSD		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1071	·	,		<u> </u>	1	
							FUEL, GOOD COMBUSTION									
		EMERGENCY					PRACTICES, LIMITED HOURS									
WILDCAT POINT		DIESEL ENGINE					OF OPERATION, AND									
GENERATION		FOR FIRE WATER				40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR	DESIGNED TO ACHIEVE									
*MD-0042 FACILITY	4/8/201	PUMP	ULTRA LOW S	477	7 HP	DIESEL FUEL, GOOD COMBUSTION PRACTICES	EMISSION LIMITS).15 G/HP-H		0.2	G/KW-H		()	
		5 EN CENCENION					EXCLUSIVE USE OF ULSD									
COLUMN PORTE LAW	.	5 EMERGENCY				40 CED CO CUIDDADT WE LILTDA LONG CHARLE	FUEL, GOOD COMBUSTION									
*MD-0044 COVE POINT LNG		FIRE WATER PUMP ENGINES	ULTRA LOW S	250	0 HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMITS	l .).15 G/BHP-H		0.0	G/KW-H		l ,		
KARN WEADOCK		ENGINES	ULTRA LOW S	330	Unr	DIESEL FUEL, GOOD COMBUSTION PRACTICES	ENGINE DESIGN AND).13 С/ВПР-П		0.2	G/KW-II		 '	,	+
GENERATING	·	FIRE BOOSTER				OPERATIONAL LIMITS 1 HR/DAY AND 500	OPERATION, 15 PPM SULFUR									
MI-0389 COMPLEX	12/29/200		ULTRA LOW S	40	0 KW	HRS/YR FOR PM2.5 NAAOS.	FUEL.		0.4 G/KW-H	TEST METHOD				1 (
MI 0303	12/23/200	10.00	OLINGT LOW C		0 12 11	The Treatment of the Co.	T OLL		0.11 0.12 11 11	TEST	<u> </u>	,		<u> </u>	1	
WOLVERINE										PROTOCOL;						
*MI-0400 POWER	6/29/201	Fire Pump	Diesel	420	0 HP	Maximum operation was based on 500 hours per year.		1).15 G/HP-H	BACT/SIP/NSPS	()			o l	
						This is a diesel fuel fired emergency backup fire mump.										
						It has a capacity of 315 hp, nameplate, and uses diesel										
						fuel ASTM D975 Grade 2-D S15.										
		EU-FPENGINE:														
THETFORD		Diesel fuel fired				Ultra low sulfur diesel fuel (15ppmw); 100 hours per				TEST PROTOCOL						
GENERATING		emergency backup fire				year operation for maintenance and readiness testing.	Proper combustion design and ultra			WILL SPECIFY				l .		
*MI-0410 STATION	7/25/2013	pump	diesel fuel	31:	5 hp nameplate	NSPS IIII and NESHAP ZZZZ.	low sulfur diesel fuel.	-).15 G/HP-H	AVG. TIME	()		- ')	
	1					A 165 hoursepower (hp) diesel-fueled emergency engine	.[1		1	1	1
						manufactured in 2013, iwth a heat input of 1.35	1	1		1		1				
HOLLAND BOARI	.	Emergency Engine				MMBTU/hr. Powers a fire pump used for back up	1					1		1	1	1
OF PUBLIC WORK		Diesel Fire Pump				during an emergency (EUFPENGINE). Restricted to	1					1		1	1	1
*MI-0412 EAST 5TH STREE		(EUFPENGINE)	Diesel	165	5 HP	500 hours/year on a 12-month rolling time period basis.	Good combustion practices	1).22 G/HP-H	TEST PROTOCOL		ol .		1 (ol	1
EMBERCLEAR GT		Eight 325 hp diesel		10.		, and the same period basis.			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1		T .		
*MS-0092 MS			diesel	325	5 hp		1		0			ol		1 0	o	1
		EU03 FIRE PUMP							E-5							
NH-0018 BERLIN BIOPOWE	ER 7/26/2010	ENGINE	DIESEL FUEL	2.27	7 MMBTU/H				0.3 LB/MMBTU	STACK TESTING	()		1 ()	

Table D-E-4 Particulate Matter (PM) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
*NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	Emergency diesel fire pump	Ultra Low Sulfu	250) hp	The fire pump has a maximum heat input rate of 2.63 MMBtu/hr (approximately 250 HP) and is permitted for 100 hrs per year for testing and maintenance in Perhitudes shall select alon instain any of the turning the property of the state of the property of the state o	Use of Ultra low sulfur distillate oil	0.1	5 G/B-HP-H		0.099	LB/H)	
	HICKORY RUN		COMBINED CYCLE				options listed below (or newer versions of these turbines if the Department determines that such newer versions achieve equivalent or better emissions rates and exhaust parameters) 1. General Electric 7FA (GE 7FA) 2. Siemens SGTG-5000F (Siemens F) 3. Mitsubishi M501G (Mitsubishi G) 4. Siemens SGTG-8000H (Siemens H) The emissions listed are for the Siemens SGTG-8000H			LB/H W/ DUCT	11.0 LB/HR		T/YR 12- MONTH	INCLUDING STARTUP AND			
*PA-0291	ENERGY STATION HICKORY RUN	4/23/2013	UNITS #1 and #2 EMERGENCY	Natural Gas	3.4	4 MMCF/HR	unit.		18.	5 BURNER	WITHOUT	62.89	ROLLIN	SHUTDOWN 12-MONTH	(
*PA-0291	ENERGY STATION	4/23/2013	FIREWATER PUMP	ULTRA LOW S	3.2:	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)		0.1	5 LB/H		0.01	T/YR	ROLLING TOTAL	()	
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT MIDWEST FERTILIZER	4/10/2014	Emergency Diesel Fire Pump	ULSD Fuel Oil	33:	5 hp	The Emergency Fire Pump is rated at 335 BHP and limited to 500 hr/yr (emergency operations and testing and maintenance, combined). OPERATION NOT TO EXCEED 500 HOURS PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION		5 G/B-HP-H		0.11	LB/H)	
*IN-0180	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP .	TESTED.	PRACTICES	0.1	5 G/B-HP-H	3-HR AVERAGE	0			(
*MI-0399	DETROIT EDISON MONROE MIDWEST	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	25:	2 HP	Each pump engine is 252 HP. They are limited to emergency use and subject to NSPS Subpart IIII. OPERATION NOT TO EXCEED 500 HOURS PER	Good combustion practices.	0.	4 G/HP-H	QP1&QP2 EACH, TEST PROTOCOL	0.15	G/HP-H	QP3&QP4 EACH, TEST PROTOCOL	()	
*IN-0173	FERTILIZER CORPORATION	6/4/2014	RAW WATER PUMP) HP	YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES		5 G/BHP-H	3-HR AVERAGE	0			()	
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfu	ır Diesel			Clean Fuel	0.0	6 lb/MMBtu	1-hr average	0.11	LB/H	1-hour average			
	Catoctin Power LLC		Firewater Pump	Ultra Low Sulfi	370	kW		ULSD (<0.05% S); Good Combustion Practices	0.8	1 LB/H	3-hr average	100	hr/yr				
	Footprint Power Salem Harbor Development LP Footprint Power		Fire Pump	ULSD	80) MMBtu/hr		Pipeline quality NG	0.1	2 LB/H	1-hr average	0.15	g/b-hp-hr	1-hr average			
	Salem Harbor Development LP		Fire Pump	ULSD	80) MMBtu/hr		Pipeline quality NG	0.	2 g/KW-hr	1-hr average						
	CPV Valley Energy Center Wawayanda,																
ļ	NY Hess Newark Energy		Fire Pump	ULSD	32:	5 bhp		Low sulfur fuel.	0.04	3 lb/MMBtu	1-hr average						
	Center		Fire Pump	ULSD	270	HP			1.2	4 LB/H							

Table D-E-5 Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	DONLIN GOLD		Fire Pump Diesel Internal Combustion				Three (3) 252 hp fire pump diesel internal	Clean Eval and Good Combustion									
*AK-0084	PROJECT	6/30/2017	Engines DFP1-13 - Diesel	Diesel	25	2 hp	combustion engines.	Practices	0.1	G/KW-HR	3-HOUR AVERAGE		0			0	
*LA-0312	ST. JAMES METHANOL PLANT	6/20/2017	Fire Pump Engine (EQT0013)	Diesel	(5	D b	Operating hour limit: 100 hr/yr	Compliance with NSPS Subpart IIII	0.1	LB/HR							
*LA-0312	METHANOL PLANT	6/30/2017	(EQ10013)	Diesei	63	0 horsepower	Operating nour limit: 100 nr/yr	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40	0.1.	LB/IIK			0			0	
			SCPS Emergency					CFR 60 Subpart IIII, and good									
LA-0313	ST. CHARLES POWER STATION	8/31/2016	Diesel Firewater Pump 1	Diesel	28	2 HP		combustion practices (use of ultra- low sulfur diesel fuel).		LB/H	HOURLY MAXIMUM	0.	02 T/YR	ANNUAL MAXIMUM	0.15	G/BHP-H	
LA-0316	CAMERON LNG FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	46	0 hp		Complying with 40 CFR 60 Subpart IIII					0			0	
	METHANEX - GEISMAR METHANOL		Firewater pump					complying with 40 CFR 60 Subpart									
LA-0317	PLANT	12/22/2016	Engines (4 units)	diesel	89	6 hp (each)		IIII and 40 CFR 63 Subpart ZZZZ Proper operation and limits on hours					0			0	
	MONSANTO LULING		Fire Water Diesel				Emergency engine with a limit of 100 hours/yr on operating hours for ready	operation for emergency engines and compliance with 40 CFR 60 Subpart	1								
LA-0323	PLANT	1/9/2017	Pump No. 3 Engine	Diesel Fuel	60	0 hp	testing.	IIII)			0		(0	
								Proper operation and limits on hours	;								
	MONSANTO LULING		Fire Water Diesel				Emergency Engine limited to 100 hours/yr	of operation for emergency engines and compliance with 40 CFR 60									
LA-0323	PLANT	1/9/2017	Pump No. 4 Engine Dieself fire pump	Diesel Fuel	60	0 hp	for ready tests	Subpart IIII	')			0		(0	
	GRAYLING		engine (EUFIREPUMP in				One diesel fire pump engine rated at 400 KW (identified as EUFIREPUMP in	operation and combustion practices.			TEST PROTOCOL WILL SPECIFY						
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	50	0 H/YR	FGRICE). A 260 brake norsepower (bnp) diesei-	Operational restrictions/limited use.	0.13	LB/H	AVG TIME		0			0	
							fueled emergency engine manufactured in 2011 or later and a displacement of <10										
							liters/cylinder. Powers a fire pump used for a back up during an emergency										
							(EUFPENGINE). Restricted to 1										
			EUFPENGINE				hour/day, except during emergency conditions and stack testing, and 100										
MI-0423	INDECK NILES, LLC	1/4/2017	(Emergency engine- diesel fire pump)	Diesel	1.6	6 MMBTU/H	hours/year on a 12-month rolling time period basis.	Good combustion practices	0.5	LB/H	HOURLY		0			0	
			EUFIREPUMP in					Certified engines. Good design,									
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	FGRICE (Diesel fire pump engine)	Diesel	50	0 H/YR	One diesel fire pump engine rated at 400 KW (EUFIREPUMP in FGRICE).	operation and combustion practices. Operational restrictions/limited use.	0.13	LB/H	TEST PROTOCOL SHALL SPECIFY		0				
							A 300 HP diesel-fired emergency fire pump engine with a model year of 2011 or										
	MEC NORTH, LLC		EUFPENGINE (South Plant): Fire				later, and a displacement of <30 liters/cylinder. Equipped with a diesel	Diesel particulate filter, good combustion practices and meeting									
*MI-0433	AND MEC SOUTH LLC	6/29/2018	pump engine	Diesel	30	0 HP	particulate filter. A 300 HP diesel-fired emergency fire	NSPS Subpart IIII requirements.	0.6	LB/H	HOURLY		0			0	
			EUFPENGINE				pump engine with a model year of 2011 or later, and a displacement of <30	Discolar stimulate files and									
	MEC NORTH, LLC		(North Plant): Fire				liters/cylinder. Equipped with a diesel	Diesel particulate filter, good combustion practices and meeting									
*MI-0433	AND MEC SOUTH LLC	6/29/2018	pump engine	Diesel	30	0 HP	particulate filter.	NSPS Subpart IIII requirements.	0.6	LB/H	HOURLY		0			0	
							A 399 brake HP diesel-fueled emergency fire pump engine with a model year of										
	BELLE RIVER COMBINED CYCLE		EUFPENGINE: Fire				2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier										
*MI-0435	POWER PLANT PSEG FOSSIL LLC	7/16/2018	pump engine	Diesel	39	9 BHP	3 certified engine subject to NSPS IIII.	State of the art combustion design.	0.1	LB/H	HOURLY		0			0	
	SEWAREN GENERATING		Emergency Diesel				Maximum heat Input Rate = 2.6	use of ULSD a clean burning fuel,									
NJ-0084	STATION	3/10/2016	Fire Pump DIESEL-FIRED	ULSD	10	0 H/YR	MMBtu/hr	and limited hours of operation	0.	LB/H			0			0	
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	WATER PUMP 376	DIESEL FUEL			FWP-1: 104.0 tons/year (12-month	Ultra Low Sulfur Diesel/Fuel (15		G/HP-H	DED IID						
	KENAI NITROGEN		bph (1) Diesel Fired Well				rolling total) 2.7 MMBtu/hr Diesel Fired Well Pump.	ppm max)			PER HR		0				
*AK-0083	OPERATIONS BLYTHE ENERGY		Pump	Diesel		7 MMBtu/hr	Installed in 1966.	Limited Operation of 168 hr/yr.		LB/MMBTU			0		1		
CA-1144	PROJECT II	4/25/2007	FIRE PUMP	DIESEL	30.	3 HP			0.	LB/H			0		1	0	
			EMERGENCY					USE ULTRA LOW SULFUR FUEL NOT TO EXCEED 15 PPMVD									
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	FIREWATER PUMP ENGINE	DIESEL	28	8 HP		FUEL SULFUR, OPERATIONAL LIMIT OF 50 HRS/YR					0			0	
	IOWA FERTILIZER										AVERAGE OF 3 STACK TEST			ROLLING 12			
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	1-	4 GAL/H	rated @ 235 KW	good combustion practices	0.:	G/KW-HR	RUNS	0.	03 T/YR	MONTH TOTAL		0	

Table D-E-5 Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT													STANDARD		
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
								Tier IV standards for non-road									
*IL-0114	CRONUS CHEMICALS,	9/5/2014	Firewater Pump	distillate fuel oil	37	12 ha		engines at 40 CFR 1039.102, Table	0.1	G/KW-HR					1 .	0	
11.0114	LLC	2/3/2014	TWO (2)	distinate ruer on	37	J IIP	THE TWO FIREWATER PUMP	-	0.1	G/KW-IIK			-				
			FIREWATER				ENGINES, IDENTIFIED AS FP01 AND										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/2/2012	PUMP DIESEL ENGINES	DIESEL	,,	1 BHP, EACH	FP02, EXHAUSTING THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/B-HP-H			HOURS OF 00 OPERATIO	VEADIN			
1111-0136	MIDWEST	12/3/2012	ENGINES	DIESEL	37	I BHF, EACH	OPERATION LIMITED TO 500 HOURS	CONTROLS AND USAGE LIMITS	0.13	G/B-III-II		,	JO OFEKATIO	N I LAKET		0	
	FERTILIZER						PER YEAR. INSIGNIFICANT	GOOD COMBUSTION									
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP DIESEL-FIRED		50	00 HP	ACTIVITY, WILL NOT BE TESTED.	PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0		+	0	
	OHIO VALLEY		EMERGENCY	NO. 2 FUEL			ANNUAL OPERATION LIMITED TO	GOOD COMBUSTION									
*IN-0179	RESOURCES, LLC	9/25/2013	WATER PUMP	OIL	48	BHP	200 HR,	PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0			0	
	MIDWEST						OPERATION LIMITED TO 500 HOURS	COOD COLENIATION									
*IN-0180	FERTILIZER CORPORATION	6/4/2014	FIRE PUMP		50	0 HP	PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0			0	
11 0100		0/1/2011			30	- I	THE THIRT, WILL NOT BE TESTED.	GOOD ENGINE DESIGN AND	0.13	G/D III II							
	CRESCENT CITY		DIESEL FIRED					PROPER OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	POWER	6/6/2005	WATER PUMP				425 HP	PRACTICES USE OF LOW-SULFUR FUELS,	0.14	LB/H	MAXIMUM	0.0	04 T/YR	MAXIMUM	0.1	5 G/B-HP-H	AVERAGE
								LIMITING OPERATING HOURS									
	ARSENAL HILL		DFP DIESEL FIRE					AND PROPER ENGINE									
LA-0224	POWER PLANT FLOPAM INC.	3/20/2008		DIESEL	31	0 HP	EQT-016	MAINTENANCE	0.68	LB/H	MAX		0			0	
LA-0251	FACILITY	4/26/2011	Fire Pump Engines - 2 units	diesel	44	14 hp	each		0.01	LB/H		0.0	01 T/YR		0.1	5 G/HP-H	
	NINEMILE POINT							ULTRA LOW SULFUR DIESEL									
	ELECTRIC		EMERGENCY FIRE					AND GOOD COMBUSTION			ANNUAL			ANNUAL			
LA-0254	GENERATING PLANT SALEM HARBOR	8/16/2011	PUMP	DIESEL	35	60 HP	â‰	PRACTICES	0.15	G/B-HP-H	AVERAGE	0.	15 G/B-HP-H	AVERAGE			
	STATION						rolling period				1 HR BLOCK			1 HR BLOCK			
*MA-0039	REDEVELOPMENT	1/30/2014	Fire Pump Engine	ULSD	2.	7 MMBtu/hr	S in ULSD: â‰□0.0015% by weight		0.15	G/B-HP-H	AVERAGE	0.	12 LB/H	AVERAGE		0	
			INTERNAL COMBUSTION ENGINE - EMERGENCY FIRE														
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP EMERGENCY	DIESEL	30	0 HP			0.15	G/B-HP-H			0		+	0	
			DIESEL ENGINE	ULTRA-LOW			40 CFR 60, SUBPART IIII, ULTRA LOW	EXCLUSIVE USE OF ULTRA									
			FOR FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	LOW SULFUR FUEL AND GOOD									
*MD-0041	CPV ST. CHARLES	4/23/2014	PUMP	DIESEL	30	0 HP	COMBUSTION PRACTICES	COMBUSTION PRACTICES EXCLUSIVE USE OF ULSD	0.15	G/B-HP-H	N/A		0		-	0	
	WILDCAT POINT GENERATION		EMERGENCY DIESEL ENGINE FOR FIRE WATER	ULTRA LOW SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW SULFUR DIESEL FUEL, GOOD	FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS									
*MD-0042	FACILITY	4/8/2014		DIESEL	47	77 HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.15	G/B-HP-H		0.3	23 G/KW-HR			0	
	PERRYMAN		EMERGENCY DIESEL ENGINE	ULTRAL LOW				GOOD COMBUSTION PRACTICES, LIMITED HOURS	1			1					
	GENERATING	1	FOR FIRE WATER	SULFUR			40 CFR 60, SUBPART IIII, GOOD	OF OPERATION, AND	1		FILTERABLE +	1	1		1		
*MD-0043	STATION	7/1/2014		DIESEL	35	0 HP	COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD	0.17	G/B-HP-H	CONDENSIBLE	0.	15 G/B-HP-H	FILTERABLE	1	0	
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	5 EMERGENCY FIRE WATER PUMP ENGINES	ULTRA LOW SULFUR DIESEL	35	50 HP	40 CFR 60, SUBPART IIII, ULTRA LOW SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.17	G/B-HP-H		0.3	23 G/KW-HR			0	
	KARN WEADOCK			ULTRA LOW				ENGINE DESIGN AND									
MI-0389	GENERATING COMPLEX	12/29/2009	FIRE BOOSTER	SULFUR DIESEL		10 KW	OPERATIONAL LIMITS 1 HR/DAY AND 500 HRS/YR FOR PM2.5 NAAOS.	OPERATION. 15 PPM SULFUR FUEL.	0.21	LB/MMBTU	TEST METHOD	1			1 .	ا	
IVII-0389	COMPLEX	12/29/2009	PUMP	DIESEL	 	HU K W	Maximum operation was based on 500	FUEL.	0.31	LB/MMBTU	TEST METHOD TEST PROTOCOL;	 	U	1	+ '	0	+
*MI-0400	WOLVERINE POWER	6/29/2011	Fire Pump	Diesel	42	0 HP	hours per year. This is a diesel fuel fired emergency		0.14	LB/H	BACT		0		1	0	
							backup fire mump. It has a capacity of 315 hp, nameplate, and uses diesel fuel ASTM D975 Grade 2-D S15.										
	THETEORE		EU-FPENGINE:				Ultra low sulfur diesel fuel (15ppmw);				TEGT PROTOGET	1					
	THETFORD GENERATING		Diesel fuel fired emergency backup				100 hours per year operation for maintenance and readiness testing. NSPS	Proper combustion decion and ultra			TEST PROTOCOL WILL SPECIFY	1					
*MI-0410	STATION	7/25/2013	fire pump	diesel fuel	31	5 hp nameplate	IIII and NESHAP ZZZZ.	low sulfur diesel fuel	0.6	LB/H	AVG. TIME	1	0	1	1	اه	1

Table D-E-5 Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

																1	
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
							A 165 hoursepower (hp) diesel-fueled emergency engine manufactured in 2013, iwth a heat input of 1.35 MMBTU/hr. Powers a fire pump used for back up										
	HOLLAND BOARD OF PUBLIC WORKS -		Emergency Engine				during an emergency (EUFPENGINE).										
*MI-0412	EAST 5TH STREET	12/4/2013	Diesel Fire Pump (EUFPENGINE)	Diesel	16	55 HP	Restricted to 500 hours/year on a 12- month rolling time period basis.	Good combustion practices	0.09	LB/MMBTU	TEST PROTOCOL					,	
******	EMBERCLEAR GTL	5/0/2014	Eight 325 hp diesel		22										,		
*MS-0092	MS	5/8/2014	firewater pumps IC ENGINE,	diesel	3.2	25 hp			0			-	<u>'</u>			1	
	FORSYTH ENERGY		EMERGENCY FIREWATER														
NC-0101	PLANT	9/29/2005		DIESEL FUEL	11.	4 MMBTU/H	usage limited to 200 h/yr		1.14	LB/H		()		(
*NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	Emergency diesel fire pump	Ultra Low Sulfur Distillate oil		0	The fire pump has a maximum heat input rate of 2.63 MMBtu/hr (approximately 250 HP) and is permitted for 100 hrs per year for testing and maintenance SUDDECT IONNES SUDPART IIII.	Use of ultra low sulfur distillate oil	0.15	G/B-HP-H		0.099	LB/H		()	
							WILL INSTALL NON-RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60.4209(A)										
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	FIRE PUMP ENGINES (2)	DIESEL FUEL OIL	30	00 HP	DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.27	LB/H	FOR EACH ENGINE	0.01	7 T/YR	PER ROLLING 12- MONTH PERIOD	0.4	G/HP-H	FROM TABLE 4 OF SUBPART IIII
	OREGON CLEAN		Emergency fire				223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per	Purchased certified to the standards						PER ROLLING 12-			
*OH-0352	ENERGY CENTER	6/18/2013	pump engine EMERGENCY FIRE	diesel	30	00 HP	rolling 12 months.	in NSPS Subpart IIII	0.1	LB/H		0.025	T/YR	MONTHS	(SEE NOTES
	CHOUTEAU POWER		PUMP (267-HP	LOW SULFUR													
OK-0129	PLANT MOXIE LIBERTY	1/23/2009	DIESEL)	DIESEL	26	57 HP			0.24	LB/H		0.4	G/B-HP-H	NSPS	(
	LLC/ASYLUM POWER						The fire pump will be restricted to operate										
PA-0278	PL T MOXIE ENERGY	10/10/2012	Fire Pump	Diesel		0	not more than 100 hr/yr.		0.09	G/B-HP-H		0.09	LB/H		(
*PA-0286	LLC/PATRIOT GENERATION PLT BERKS HOLLOW	1/31/2013	Fire Pump Engine - 460 BHP	Diesel		0			0.09	G/B-HP-H	BASED ON 12-	0.09	LB/H		0.01	T/YR	
	ENERGY ASSOC		Emergency								MONTH ROLLING						
*PA-0296	LLC/ONTELAUNEE ENERGY ANSWERS	12/17/2013	Firewater Pump	Diesel	1	6 Gal/hr	The Emergency Fire Pump is rated at 335		0.005	T/YR	TOTAL)		(1	
	ARECIBO PUERTO RICO RENEWABLE		E	ULSD Fuel Oil			BHP and limited to 500 hr/yr (emergency operations and testing and maintenance,										
*PR-0009	ENERGY PROJECT	4/10/2014	Emergency Diesel Fire Pump	#2		0	combined).		0.15	G/B-HP-H		0.11	LB/H				
	GATEWAY COGENERATION 1, LLC - SMART WATER		FIRE WATER	diesel (ultra low				Clean burning ULSD fuel and good									
VA-0319	PROJECT	8/27/2012	PUMP	sulfur)	1.8	66 MMBTU/H	500 H/Yr operation Each pump engine is 252 HP. They are	combusion practices	0.15	G/B-HP-H		-		1	(
*MI-0399	DETROIT EDISON- MONROE	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	25	12 HP	limited to emergency use and subject to NSPS Subpart IIII.	Good combustion practices.	0.4	G/B-HP-H	QP1&QP2, EACH; TEST PROTOCOL	0.15	G/B-HP-H	QP3&QP4, EACH; TEST PROTOCOL	()	
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel				Clean Fuel	0.06	lb/MMBtu	1-hr average		LB/H	1-hour average			
				Ultra Low				ULSD (<0.05% S); Good									
	Catoctin Power LLC		Firewater Pump	Sulfur Diesel	37	70 kW		Combustion Practices	0.81	LB/H	3-hr average	100	hr/yr				+
	Footprint Power Salem Harbor Development LP		Fire Pump	ULSD	8	0 MMBtu/hr		Pipeline quality NG	0.12	LB/H	1-hr average	0.15	g/b-hp-hr	1-hr average			
	Footprint Power Salem Harbor Development LP		Fire Pump	ULSD	8	0 MMBtu/hr		Pipeline quality NG	0.2	g/KW-hr	1-hr average						
	CPV Valley Energy Center Wawayanda, NY		Fire Pump	ULSD	32	25 bhp		Low sulfur fuel.	0.043	lb/MMBtu	1-hr average						
	Cricket Valley Energy Center		Fire Pump	ULSD	,	.8 MMBtu/hr			0.032	lb/MMBtu		0.08	g/b-hp-hr				
	Pioneer Valley Energy Center		Fire Pump	ULSD		O HP				g/KW-hr		0.08	д о-пр-ш				
	Hess Newark Energy Center		Fire Pump	ULSD	27	70 HP			0.00	LB/H		0.000	T/YR				
	Center		li ne rumb	CLSD	1 27	VIII	I .	l .	0.09	LD/11	1	0.00	/11/1K	1	1		1

Table D-E-6 Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

,																	
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
									İ								1
	DONLIN GOLD		Fire Pump Diesel Internal Combustion				Three (3) 252 hp fire pump diesel interna	Clean Fuel and Good Combustion									
*AK-0084	PROJECT	6/30/2017	Engines	Diesel	252	hp	combustion engines.	Practices	0.19	G/KW-HR	3-HOUR AVERAGE		0			0	
	ST. JAMES		DFP1-13 - Diesel														
	METHANOL		Fire Pump Engine			l.	I										
*LA-0312	PLANT	6/30/2017	(EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NSPS IIII Compliance with NESHAP 40 CFR 63	0.15	LB/HR		· ·	0	-		0	+
								Subpart ZZZZ and NSPS 40 CFR 60									
			SCPS Emergency					Subpart IIII, and good combustion									
	ST. CHARLES		Diesel Firewater					practices (use of ultra-low sulfur diesel			HOURLY			ANNUAL			
LA-0313	POWER STATION	8/31/2016		Diesel	282	HP		fuel).	0.09	LB/H	MAXIMUM	0.0	2 T/YR	MAXIMUM		0	
LA-0316	CAMERON LNG FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	460	ha		Complying with 40 CFR 60 Subpart IIII					0			0	
LA-0310	METHANEX -	2/1//201/	engines (8 units)	diesei	400	np		Comprying with 40 CFR 60 Subpart ini	<u> </u>				-			0	+
	GEISMAR																
	METHANOL		Firewater pump					complying with 40 CFR 60 Subpart IIII									
LA-0317	PLANT	12/22/2016	Engines (4 units)	diesel	896	hp (each)		and 40 CFR 63 Subpart ZZZZ	(0	-		0	
							Emergency engine with a limit of 100	Proper operation and limits on hours									
	MONSANTO		Fire Water Diesel				hours/yr on operating hours for ready	operation for emergency engines and									
LA-0323	LULING PLANT	1/9/2017		Diesel Fuel	600	hp	testing.	compliance with 40 CFR 60 Subpart IIII	(0			0	
								n									
	MONSANTO		Fire Water Diesel				Emergency Engine limited to 100 hours/y	Proper operation and limits on hours of									
LA-0323	LULING PLANT	1/9/2017	Pump No. 4 Engine	Diesel Fuel	600	hn	for ready tests	compliance with 40 CFR 60 Subpart IIII					0			0	
			Dieself fire pump														1
			engine				One diesel fire pump engine rated at 400		n		TEST PROTOCOL						
	GRAYLING	0/2//201/	(EUFIREPUMP in	n	500	YY AZD	KW (identified as EUFIREPUMP in	and combustion practices. Operational		1 12 / 17	WILL SPECIFY						
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	500	H/YR	FGRICE). A 260 brake horsepower (bhp) diesel-	restrictions/limited use.	0.18	LB/H	AVG TIME		0			0	+
							fueled emergency engine manufactured in										
							2011 or later and a displacement of <10										
							liters/cylinder. Powers a fire pump used										
							for a back up during an emergency										
							(EUFPENGINE). Restricted to 1 hour/day, except during emergency										
			EUFPENGINE				conditions and stack testing, and 100										
	INDECK NILES.		(Emergency engine				hours/year on a 12-month rolling time										
MI-0423	LLC	1/4/2017	diesel fire pump)	Diesel	1.66	MMBTU/H	period basis.	Good combustion practices		LB/H	HOURLY		0			0	
			EUFIREPUMP in					Certified engines. Good design, operation	n								
MI-0425	GRAYLING PARTICLEBOARD	5/0/2017	FGRICE (Diesel fire	Diesel	500	H/YR	One diesel fire pump engine rated at 400 KW (EUFIREPUMP in FGRICE).	and combustion practices. Operational restrictions/limited use.		LB/H	TEST PROTOCOL SHALL SPECIFY						
MI-0425	PARTICLEBUARD	5/9/201/	pump engine)	Diesel	500	H/YK	A 300 HP diesel-fired emergency fire	restrictions/limited use.	0.18	LB/H	SHALL SPECIFY		0			0	
							pump engine with a model year of 2011 or	r									
	MEC NORTH, LLC		EUFPENGINE				later, and a displacement of <30	Diesel particulate filter, good combustion									
	AND MEC SOUTH		(South Plant): Fire				liters/cylinder. Equipped with a diesel	practices and meeting NSPS Subpart IIII									
*MI-0433	LLC	6/29/2018	pump engine	Diesel	300	HP	particulate filter. A 300 HP diesel-fired emergency fire	requirements.	0.66	LB/H	HOURLY		0			0	
							pump engine with a model year of 2011 or										
	MEC NORTH, LLC		EUFPENGINE				later, and a displacement of <30	Diesel particulate filter, good combustion									
	AND MEC SOUTH		(North Plant): Fire				liters/cylinder. Equipped with a diesel	practices and meeting NSPS Subpart IIII									
*MI-0433	LLC	6/29/2018	pump engine	Diesel	300	HP	particulate filter.	requirements.	0.66	LB/H	HOURLY		0			0	
						1	A 399 brake HP diesel-fueled emergency										
	BELLE RIVER			1			fire pump engine with a model year of	1									
	COMBINED						2011 or later, and a displacement of <10										
	CYCLE POWER		EUFPENGINE: Fire				liters/cylinder. The engine is an EPA Tie										
*MI-0435	PLANT	7/16/2018	pump engine	Diesel	399	BHP	3 certified engine subject to NSPS IIII.	State of the art combustion design.	0.13	LB/H	HOURLY		0			0	
	PSEG FOSSIL LLC SEWAREN			1				1									
	GENERATING		Emergency Diesel			1	Maximum heat Input Rate = 2.6	use of ULSD a clean burning fuel, and									
NJ-0084	STATION	3/10/2016	Fire Pump	ULSD	100	H/YR	MMBtu/hr	limited hours of operation	0.1	LB/H			0			0	
		10.2010	DIESEL-FIRED		100			·	1								1
	GREENSVILLE		WATER PUMP 376			1	FWP-1: 104.0 tons/year (12-month	Ultra Low Sulfur Diesel/Fuel (15 ppm									
*VA-0325	POWER STATION	6/17/2016	bph (1)	DIESEL FUEL	+ (1	rolling total)	max)	0.3	G/HP-H	HR	-	0	+	+	0	+
	KENAI NITROGEN		Diesel Fired Well	1			2.7 MMBtu/hr Diesel Fired Well Pump.	1									
*AK-0083	OPERATIONS	1/6/2015	Pump	Diesel	2.5	MMBtu/hr	Installed in 1966.	Limited Operation of 168 hr/yr.	0.31	LB/MMBTU			0			0	
	VICTORVILLE 2		EMERGENCY					OPERATIONAL RESTRICTION OF 50									
	HYBRID POWER		FIREWATER			1	135 KW (182 hp) IC Diesel-fired	HR/YR, OPERATE AS REQUIRED FOR									
CA-1191	PROJECT	3/11/2010	PUMP ENGINE	DIESEL	135	KW	Emergency Firewater Pump Engine	FIRE SAFETY TESTING	0.2	G/KW-HR	AVERAGE OF 3	0.1	5 G/B-HP-H		+	0	
	IOWA FERTILIZER			1				1			AVERAGE OF 3 STACK TEST			ROLLING 12			
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.3	G/KW-HR	RUNS	0.0	3 T/YR	MONTH TOTAL		0	
2.10103	CRONUS		Firewater Pump	and the	1	G. 1211	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tier IV standards for non-road engines at		C.KW-IIK	1.0.10	0.0	J 1/1K		1	-	+
*IL-0114	CHEMICALS, LLC	9/5/2014	Engine	distillate fuel oil	373	hp		40 CFR 1039.102, Table 7.	0.1	G/KW-HR			0			0	
						• •	•	•		•				•	•		

Table D-E-6 Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT		1											STANDARD		
		ISSUANCE		PRIMARY		THROUGHPUT			EMISSION		AVG TIME	EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
i			TWO (2)				THE TWO FIREWATER PUMP										
	ST. JOSEPH		FIREWATER				ENGINES, IDENTIFIED AS FP01 AND										
	ENEGRY CENTER,		PUMP DIESEL				FP02, EXHAUSTING THROUGH TWO						HOURS OF				
*IN-0158	LLC	12/3/2012	ENGINES	DIESEL	37	BHP, EACH	(2) VENTS.	AND USAGE LIMITS	0.15	G/B-HP-H	3 HOURS	500	0 OPERATION	YEARLY		0	
	MIDWEST FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR, INSIGNIFICANT										
*IN-0173	CORPORATION	C/4/201	FIRE PUMP			HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES		C TO THE TI	3-HR AVERAGE	l .					
*IN-01/3	CORPORATION	6/4/2014	DIESEL-FIRED		50	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.13	G/B-HP-H	3-HK AVERAGE	· '	0			0	
	OHIO VALLEY		EMERGENCY	NO. 2 FUEL			ANNUAL OPERATION LIMITED TO										
*IN-0179	RESOURCES, LLC	9/25/2013	WATER PUMP	OII.	48	BHP	200 HR.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE	Ι,	0			0	
	MIDWEST	,,_,,					OPERATION LIMITED TO 500 HOURS		****								
	FERTILIZER						PER YEAR. INSIGNIFICANT										
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		50	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0			0	
	NINEMILE POINT																
	ELECTRIC																
	GENERATING		EMERGENCY FIRE					ULTRA LOW SULFUR DIESEL AND			ANNUAL						ANNUAL
LA-0254	PLANT SALEM HARBOR	8/16/2011	PUMP	DIESEL	35	HP		GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	AVERAGE	,	0		- 0	.15 G/HP-H	AVERAGE
	STATION						≤ 300 hours of operation per 12-month						1			- 1	
	REDEVELOPMEN						rolling period				1 HR BLOCK		1	1 HR BLOCK		- 1	
*MA-0039	T	1/30/2014	Fire Pump Engine	ULSD	,	MMBtu/hr	S in ULSD: â‰0.0015% by weight		0.15	G/B-HP-H	AVERAGE	0.11	2 LB/H	AVERAGE		0	
3037	f	1, 30, 201-					CLOD. a.o0.001570 by weight	<u> </u>	0.13	3.5 m-m		0.1.			+	1	1
			INTERNAL										1			- 1	
			COMBUSTION										1			- 1	
			ENGINE -														
			EMERGENCY FIRE														
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP	DIESEL	30	HP			0.15	G/B-HP-H		(0			0	
								EXCLUSIVE USE OF ULSD FUEL,									
	WILDCAT POINT		EMERGENCY DIESEL ENGINE	ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW	GOOD COMBUSTION PRACTICES,									
	GENERATION		FOR FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE									
*MD-0042	FACILITY	4/8/2014		DIESEL	47	HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.15	G/B-HP-H			3 G/KW-H			0	
*MD-0042	FACILII 1	4/8/2014	FUMP	DIESEL	4/	пР	COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL,	0.13	О/В-ПР-П	+	0.2.	3 G/KW-II			0	
			5 EMERGENCY	ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW										
	COVE POINT LNG		FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE									
*MD-0044	TERMINAL	6/9/2014	PUMP ENGINES	DIESEL	35	HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.17	G/B-HP-H		0.2:	3 G/KW-H			0	
	WOLVERINE						Maximum operation was based on 500				TEST PROTOCOL;						
*MI-0400	POWER	6/29/2011	Fire Pump	Diesel	42	HP	hours per year. This is a diesel fuel fired emergency		0.14	LB/H	BACT		0			0	
							backup fire mump. It has a capacity of										
							315 hp, nameplate, and uses diesel fuel										
							ASTM D975 Grade 2-D S15.										
							TESTIN 1977 GIAGO 2 19 513.										
			EU-FPENGINE:				Ultra low sulfur diesel fuel (15ppmw);										
	THETFORD		Diesel fuel fired				100 hours per year operation for				TEST PROTOCOL						
	GENERATING		emergency backup				maintenance and readiness testing. NSPS	Proper combustion design and ultra low			WILL SPECIFY						
*MI-0410	STATION	7/25/2013	fire pump	diesel fuel	31	hp nameplate	IIII and NESHAP ZZZZ.	sulfur diesel fuel.	0.6	LB/H	AVG. TIME		0			0	
							A 165 hoursepower (hp) diesel-fueled						1			- 1	
							emergency engine manufactured in 2013,						1			- 1	
	WOLL IND DO : 22						iwth a heat input of 1.35 MMBTU/hr.				1		1			- 1	
	HOLLAND BOARD OF PUBLIC		F	1	1		Powers a fire pump used for back up			1		1	1			- 1	
	WORKS - EAST		Emergency Engine Diesel Fire Pump	1			during an emergency (EUFPENGINE). Restricted to 500 hours/year on a 12-				1		1			- 1	
*MI-0412	5TH STREET	12/4/2015	(EUFPENGINE)	Diesel	1/	HP	month rolling time period basis.	Good combustion practices	0.00	LB/MMBTU	TEST PROTOCOL] .	ا				
1/11-0412	EMBERCLEAR	12/4/2013	Eight 325 hp diesel	Diesei	16	, iir	monur rotting time period basis.	Good combustion practices	0.09	LD/MINIBIU	ILSI PROTOCOL	 		1	+	V	1
*MS-0092	GTL MS	5/8/2014	firewater pumps	diesel	32	hp			0				0			0	
	PSEG FOSSIL LLC						The fire pump has a maximum heat input				1		1			- 1	
	SEWAREN			Ultra Low			rate of 2.63 MMBtu/hr (approximately						1			- 1	
	GENERATING		Emergency diesel	Sulfur Distillate			250 HP) and is permitted for 100 hrs per										
*NJ-0081	STATION	3/7/2014	fire pump	oil)	year for testing and maintenance	Use of Ultra low sulfur distillate oil	0.15	G/B-HP-H		0.09	9 LB/H			0	1
	MOXIE LIBERTY LLC/ASYLUM						The feet annual will be an existent to				1		1			- 1	
PA-0278	POWER PL T	10/10/2015	2 Fire Pump	Diesel		,	The fire pump will be restricted to operat- not more than 100 hr/yr.		0.00	G/B-HP-H	1	0.00	9 LB/H				
FA-02/8	FOWER PL I	10/10/2012	rne rump	Diesei	<u> </u>	<u>'</u>	not more than 100 nr/yr.		0.09	о/в-пг-п	+	0.0	7 LD/П	1	+	V	1
	MOXIE ENERGY			1	1		1			1		1	1			- 1	
	LLC/PATRIOT		Fire Pump Engine -										1			- 1	
*PA-0286	GENERATION PLT	1/31/2013	3 460 BHP	Diesel					0.09	G/B-HP-H	1	0.0	9 LB/H		0	.01 T/YR	
			•		•	•	•	•					•	•			•

Table D-E-6 Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT			EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	BERKS HOLLOW																1
	ENERGY ASSOC										BASED ON 12-						
	LLC/ONTELAUNE		Emergency								MONTH ROLLING						
*PA-0296	E ENERGY	12/17/2013	Firewater Pump	Diesel	16	Gal/hr			0.005	T/YR	TOTAL	-	0		· ·	0	
	ANSWERS																
	ARECIBO PUERTO						The Emergency Fire Pump is rated at 335										
	RICO						BHP and limited to 500 hr/yr (emergency										
	RENEWABLE		Emergency Diesel	ULSD Fuel Oil			operations and testing and maintenance,										
*PR-0009	ENERGY PROJECT	4/10/2014		#2	1		combined).		0.15	G/B-HP-H		0.11	1 LB/H		l .	n	
110 0007	GATEWAY	10/2014	r ne r amp				Combined).		0.13	G.D.III-II		0.11				1	
	COGENERATION																
	1, LLC - SMART		FIRE WATER	diesel (ultra low				Clean burning ULSD fuel and good									
VA-0319	WATER PROJECT	8/27/2012	PUMP	sulfur)	1.86	MMBTU/H	500 H/Yr operation	combustion practices.	0.15	G/B-HP-H			0			0	
	MOUNDSVILLE																
	COMBINED																
	CYCLE POWER																
*WV-0025	PLANT	11/21/2014	Fire Pump Engine	Diesel	251	HP	Limited to 100 Hours/year.		0			(0		0.1	5 G/HP-HR	
	MIDWEST						OPERATION NOT TO EXCEED 500										
	FERTILIZER		RAW WATER				HOURS PER YEAR. INSIGNIFICANT										
*IN-0180	CORPORATION	6/4/2014	PUMP	DIESEL, NO. 2	500	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE	(0			0	
	DETROIT EDISON-		4 Diesel-fired				Each pump engine is 252 HP. They are				ODIA ODA ELGII			QP3&QP4 EACH;			
*MI-0399	MONROE			Diesel fuel	252	HP	limited to emergency use and subject to NSPS Subpart IIII.	Good combustion practices		G/B-HP-H	QP1&QP2 EACH; TEST PROTOCOL	0.14	G/B-HP-H	TEST PROTOCOL	l .		
*MI-0399	MIDWEST	12/21/2010	quench pumps	Diesei luei	232	пР	OPERATION NOT TO EXCEED 500	Good combustion practices	0.4	G/В-ПР-П	TEST PROTOCOL	0.13	б б/В-ПР-П	TEST PROTOCOL	· ·	U	+
	FERTILIZER		RAW WATER				HOURS PER YEAR, INSIGNIFICANT										
*IN-0173	CORPORATION	6/4/2014		DIESEL, NO. 2	500	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE	1 (ol .		l .	n	
	Footprint Power	3/1/2011		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		The state of the s		0.13		- IIII III EIGIGE	 	_				+
	Salem Harbor																
l	Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	0.12	LB/H	1-hr average	0.15	5 g/b-hp-hr	1-hr average			
	Footprint Power		•					1									1
	Salem Harbor																
	Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	0.2	g/KW-hr	1-hr average						
	CPV Valley Energy																
	Center Wawayanda,			I				1	1								
	NY Colored Volley		Fire Pump	ULSD	325	bhp		Low sulfur fuel.	0.043	lb/MMBtu	1-hr average		1				
	Cricket Valley		E: P	ULSD	1	MMBtu/hr		1	0.022	lb/MMBtu		0.00	7 - /2 2 - 2 - 2				
	Energy Center		Fire Pump	ULSD	2.8	MMBtu/hr			0.032	Ib/MMBtu		0.08	7 g/b-hp-hr				

Table D-E-7 Sulfur Dioxide (SO₂) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

	1	IPERMIT								1			_		ISTANDARD	_	
		ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	OKEECHOBEE CLEAN		One 422-hp emergency				BACT limits equal to NSPS Subpart IIII limits. Will use			% S IN							
FL-0356	ENERGY CENTER	3/9/2016	fire pump engine	ULSD	0		IIII certified engine.	Use of ULSD	0.0015	ULSD		0			0		
	DANIA BEACH		Emergency Fire Pump							PPM S IN							
*FL-0363	ENERGY CENTER	12/4/2017	Engine (422 hp)	ULSD	0		Limits equal Subpart IIII limits	Clean fuel	15	FUEL		0	+		0	+	
							A 260 brake horsepower (bhp) diesel-fueled emergency										
							engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump										
							used for a back up during an emergency										
			EUFPENGINE				(EUFPENGINE). Restricted to 1 hour/day, except	Good combustion practices			FUEL SUP. CERT.						
			(Emergency engine		1.66		during emergency conditions and stack testing, and 100			PPM	RECORDS OR						
MI-0423	INDECK NILES, LLC	1/4/2017	diesel fire pump)	Diesel	1.66	MMBTU/H	hours/year on a 12-month rolling time period basis.	requirements.	15	PPM	SAMPLE TEST FUEL SUPPLIER	0	_		0	_	
			EUFPENGINE (South				A 300 HP diesel-fired emergency fire pump engine with	Good combustion practices			RECORDS OR						
	MEC NORTH, LLC		Plant): Fire pump				a model year of 2011 or later, and a displacement of <30				FUEL SAMPL						
*MI-0433	AND MEC SOUTH LLC	6/29/2018	engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	requirements.	15	PPM	DATA	0	+		0		
			EUFPENGINE (North				A 300 HP diesel-fired emergency fire pump engine with	Good combustion practices									
	MEC NORTH, LLC		Plant): Fire pump				a model year of 2011 or later, and a displacement of <30				FUEL SUPPLIER						
*MI-0433	AND MEC SOUTH LLC	6/29/2018	engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	requirements.	15	PPM	RECORDS	0	+		0	+	
	GREENSVILLE		DIESEL-FIRED WATER					Ultra Low Sulfur Diesel/Fuel									
*VA-0325	POWER STATION	6/17/2016	PUMP 376 bph (1)	DIESEL FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total)	(15 ppm max)	0.0015	LB/MMBTU		0			0		
	PALM BEACH RENEWABLE		Two emergency diesel				The permittee is authorized to construct a 1,000 gallon tank to store ULSD fuel oil for use in the emergency										
FL-0324	ENERGY PARK	12/23/2010	firewater pump engines		250	HP	diesel firewater pump engines.		0.0015	% SULFUR		0			0		
										PPM							
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD	20	MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice and ULSD	15	SULFUR IN FUEL		0			0		
12-0340	EACDERDALE FEATVI	4222014	TWO (2) FIREWATER	CSED	2)	WIWIDIA III	THE TWO FIREWATER PUMP ENGINES,	ULTRA LOW SULFUR	13	TOLL		0					
	ST. JOSEPH ENEGRY		PUMP DIESEL				IDENTIFIED AS FP01 AND FP02, EXHAUSTING	DISTILLATE AND USAGE									
*IN-0158	CENTER, LLC	12/3/2012	ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS.	LIMITS GOOD ENGINE DESIGN	0.0015	% SULFUR		0.043	LB/H		0	+	
	CRESCENT CITY		DIESEL FIRED WATER					AND PROPER OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	POWER	6/6/2005	PUMP				425 HP	PRACTICES	0.61	LB/H	MAXIMUM	0.02	T/YR	MAXIMUM	0.65	G/B-HP-H	AVERAGE
								USE OF LOW-SULFUR FUELS, LIMITING									
								OPERATING HOURS AND									
	ARSENAL HILL		DFP DIESEL FIRE					PROPER ENGINE									
LA-0224	POWER PLANT SALEM HARBOR	3/20/2008	PUMP	DIESEL	310	HP	EQT-016	MAINTENANCE	0.64	LB/H	MAX	0	+		0		
	STATION						â‰ 300 hours of operation per 12-month rolling period				1 HR BLOCK						
*MA-0039	REDEVELOPMENT	1/30/2014	Fire Pump Engine	ULSD	2.7	MMBtu/hr	S in ULSD: ≤0.0015% by weight		0.004	LB/H	AVG	0			0		
			INTERNAL COMBUSTION														
			ENGINE -														
			EMERGENCY FIRE														
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP	DIESEL	300	HP		USE OF ULTRA-LOW	0	-	SEE NOTE	0	-		0	+	
								DIESEL SULFUR FUEL,									
								LIMITED HOURS OF									
	WILDCAT POINT GENERATION		EMERGENCY DIESEL ENGINE FOR FIRE	ULTRA LOW SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR	OPERATION AND DESIGNED TO MEET			3-HOUR BLOCK						
*MD-0042	FACILITY	4/8/2014	WATER PUMP	DIESEL	477	HP	DIESEL FUEL, GOOD COMBUSTION PRACTICES	SUBPART III LIMITS	0.0049	G/B-HP-H	AVERAGE	0			0		
							LIMITED TO 500 HOURS PER YEAR (12 MONTH				PERCENT BY						
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	9/7/2007	DIESEL FIRE WATER PUMPS (<500 HP)				ROLLING SUM); SULFUR CONTENT OF FUEL RESTRICTS SO2 EMISSIONS.	LIMITED SULFUR IN FUEL; LIMITED HOURS	0.05	% SULFUR	WEIGHT IN FUEL (SULFUR)			1			
WIN-00/0		2///2007	IC ENGINE,				RESTRICTS SUZ EMISSIONS.	LEVIT ED HOURS	0.03	/0 SULFUR	(SULPUK)	0	+	+	0	+	
	FORSYTH ENERGY		EMERGENCY											1	1		
NC-0101	PLANT PSEG FOSSIL LLC	9/29/2005	FIREWATER PUMP	DIESEL FUEL	11.4	MMBTU/H	usage limited to 200 h/yr	1	0.58	LB/H		0	+	+	0	+	
	SEWAREN			Ultra Low			The fire pump has a maximum heat input rate of 2.63							1	1		
	GENERATING		Emergency diesel fire	Sulfur Distillate			MMBtu/hr (approximately 250 HP) and is permitted for	L		L				1	1.		
*NJ-0081	STATION OREGON CLEAN	3/7/2014	pump Emergency fire pump	oil	0	-	100 hrs per year for testing and maintenance 223.8 kW. Emergency fire pump engine restricted to	Use of Ultra low sulfur fuel oil	0.002	LB/MMBTU		0	1	+	0	+	-
*OH-0352	ENERGY CENTER	6/18/2013	engine	diesel	300	HP	500 hours of operation per rolling 12 months.		0.003	LB/H		0.0008	T/YR		0		
			EMERGENCY FIRE														
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	PUMP (267-HP DIESEL)	LOW SULFUR DIESEL	267	LUD		LOW SULFUR DIESEL	0.11	LB/H				1			
OK-0129	ENERGY ANSWERS	1/23/2009	DIESEL)	DIESEL	20/	1111		LOW SULFUK DIESEL	0.11	LD/II		U	1	+	U .	+	
	ARECIBO PUERTO		L				The Emergency Fire Pump is rated at 335 BHP and							1	1		
*PR-0009	RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Fire	ULSD Fuel Oil			limited to 500 hr/yr (emergency operations and testing and maintenance, combined).		0.003	LB/H				1		1	
L IV-0003	LINEROT PROJECT	17/10/2014	11 milb	1772	Iv	1	рана паписнансе, сонюшея).	-	0.003	LD/II	1	I.		1	12	-1	-

Table D-E-7 Sulfur Dioxide (SO₂) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

RBLCID		PERMIT ISSUANCE DATE		PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES		EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT		AVG TIME CONDITION
		ĺ						USE OF LOW SULFUR									
								FUEL DIESEL, SULFUR									
								CONTENT LESS THAN									
								0.0015 PERCENT.									
							THE CONSTRUCTION PERMIT AUTHORIZES THE										
							CONSTRUCTION OF ONE (1) FIRE PUMP. THIS	THAN 100 HOURS PER									
	PYRAMAX						PROCESS AND POLLUTANT INFORMATION IS	YEAR FOR MAINTENACE									
SC-0113	CERAMICS, LLC	2/8/2012	FIRE PUMP	DIESEL	500	HP	FOR THIS ONE SINGLE FIRE PUMP.	AND TESTING.	0			0			0		
	CHEYENNE PRAIRIE																
	GENERATING		Diesel Fire Pump Engine														
*WY-0070	STATION	8/28/2012		Sulfur Diesel	327	hp		Ultra Low Sulfur Diesel	0			0			0		
				Ultra Low													
	Catoctin Power LLC		Firewater Pump	Sulfur Diesel	370	kW		ULSD (<0.05% S)	0.13	LB/H	3-hr average	100	hr/yr				
	Footprint Power Salem																
ļ	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr			0.004	LB/H	1-hr average						
	CPV Valley Energy																
	Center Wawayanda, NY		Fire Pump	ULSD	325	bhp		Low sulfur fuel.	0.0014	lb/MMBtu	1-hr average					1	

Table D-E-8 Sulfuric Acid Mist (H₂SO₄) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT		I							1				ISTANDARD		
		ISSUANCE	PROCESS			THROUGHPUT		CONTROL METHOD	EMISSION			EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
							A 399 brake HP diesel-fueled emergency										
							fire pump engine with a model year of										
	BELLE RIVER						2011 or later, and a displacement of <10				FUEL SUPPLIER						
	COMBINED CYCLE		EUFPENGINE:				liters/cylinder. The engine is an EPA Ties	Good combustion practices, low			RECORDS OR						
*MI-0435	POWER PLANT	7/16/2018	Fire pump engine	Diesel	399	BHP	3 certified engine subject to NSPS IIII.	sulfur fuel.	15	PPM	TEST DATA	0			0		
								Ultra low sulfur diesel with									
	CRICKET VALLEY		Emergency fire					maximum sulfur content 0.0015									
NY-0103	ENERGY CENTER	2/3/2016		ultra low sulfur diesel	460	hp		percent.	0.0001	LB/MMBTU	1 H	0			0		
			DIESEL-FIRED														
	GREENSVILLE POWER		WATER PUMP				FWP-1: 104.0 tons/year (12-month	Ultra Low Sulfur Diesel/Fuel (15									
*VA-0325	STATION SALEM HARBOR	6/17/2016	376 bph (1)	DIESEL FUEL	(rolling total) ≤ 300 hours of operation per 12-month	ppm max)	0.0001	LB/MMBTU		0			- 0		
	STATION						rolling period				1 HR BLOCK						
*MA-0039	REDEVELOPMENT	1/20/2014	Fire Pump Engine	THED	, ,	MMBtu/hr	S in ULSD: ≤0.0015% by weight		0.0003	T D/H	AVERAGE						
WIA-0039	REDEVELOPMENT	1/30/2014	The rump Engine	ULSD	2.7	IVIIVIIDIW/III	3 III CL3D: a/160=0.0013/6 by weight		0.0003	LD/II	AVERAGE				-		
								USE OF ULTRA-LOW DIESEL									
			EMERGENCY					SULFUR FUEL, LIMITED									
			DIESEL ENGINE				40 CFR 60, SUBPART IIII, ULTRA LOW										
	WILDCAT POINT		FOR FIRE	ULTRA LOW SULFUR			SULFUR DIESEL FUEL, GOOD	DESIGNED TO MEET SUBPART	1		3-HOUR BLOCK						
*MD-0042	GENERATION FACILITY	4/8/2014	WATER PUMP	DIESEL	477	HP	COMBUSTION PRACTICES	IIII LIMITS	0.0049	G/B-HP-H	AVERAGE	0			0		
			EMERGENCY														
	HICKORY RUN ENERGY		FIREWATER	ULTRA LOW SULFUR			EMERGENCY FIREWATER PUMP							12-MONTH			
*PA-0291	STATION	4/23/2013	PUMP	DISTILLATE	3.25	MMBTU/H	(450 BHP)		0.0012	LB/H		0.0001	T/YR	ROLLING TOTAL	0		
	BERKS HOLLOW			1		1					1						
	ENERGY ASSOC	l	Emergency	L	[l		1						1			
*PA-0296	LLC/ONTELAUNEE	12/17/2013	Firewater Pump	Diesel	16	Gal/hr			1 0	T/PY		0	-		1 0		
	CPV Valley Energy Center Wawayanda, NY	1	r: n	ULSD	227	bhp		Low sulfur fuel.	0.00003	" a a m	l			1			
 	wawayanda, NY		Fire Pump	ULSD	323	bnp		Low suitur tuei.	0.00003	lb/MMBtu	1-hr average						
	Woodbridge Energy Center		Fire Wate Pump	Ultra Low Sulfur Diesel					0.002	lb/MMBtu		15	ppm				

Table D-E-9 Greenhouse Gases (GHG) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

			1				1	1			1						
	FACILITY	PERMIT ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
REECIE	DONLIN GOLD	Ditte	Fire Pump Diesel Internal	TREMERIT FOLL	macom er	0.111	Three (3) 252 hp fire pump diesel internal combustion	Discini IIo.	2222.2	TPY	CONDITION	2	0.1110	COMPTION	2.2.1.2.2	0.1110	CONDITION
*AK-0084	PROJECT	6/30/2017	Combustion Engines	Diesel	252	hp	engines.	Good Combustion Practices	216	(COMBINED)	YEARLY	0			0		
	ST. JAMES					i -				ĺ							
	METHANOL		DFP1-13 - Diesel Fire Pump														
*LA-0312	PLANT	6/30/2017	Engine (EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NSPS Subpart IIII	37	TPY		0			0		
	ST. CHARLES		SCPS Emergency Diesel														
LA-0313	POWER STATION	9/21/2016	Firewater Pump 1	Diesel	282	HP		Good combustion practices	0			0					
LA-0313	CAMERON LNG	8/31/2010	firewater pump engines (8	Diesei	202	H		Good combustion practices	0			0			10		
LA-0316	FACILITY	2/17/2017	units)	diesel	460	hp		good combustion practices	0			0			0		
	METHANEX -																
	GEISMAR																
	METHANOL		Firewater pump Engines (4		896			complying with 40 CFR 60 Subpart									
LA-0317	PLANT	12/22/2016	units)	diesel	896	hp (each)		IIII and 40 CFR 63 Subpart ZZZZ Proper operation and limits on hours	0			0	-		0		
								operation for emergency engines	1								
	MONSANTO		Fire Water Diesel Pump No. 3				Emergency engine with a limit of 100 hours/yr on	and compliance with 40 CFR 60									
LA-0323	LULING PLANT	1/9/2017	Engine	Diesel Fuel	600	hp	operating hours for ready testing.	Subpart IIII	0			0			0		
						ľ											
								Proper operation and limits on hours	:								
				1				of operation for emergency engines				1					
	MONSANTO		Fire Water Diesel Pump No. 4				Emergency Engine limited to 100 hours/yr for ready	and compliance with 40 CFR 60							1.		
LA-0323	LULING PLANT	1/9/2017	Engine	Diesel Fuel	600	hp	tests	Subpart IIII	0		BASED UPON A	0			0		
	GRAYLING			1						1	12-MO	1					
	PARTICLEBOAR		Dieself fire pump engine				One diesel fire pump engine rated at 400 KW	Good combustion and design			ROLLING TIME						
MI-0421	D	8/26/2016		Diesel	500	H/YR	(identified as EUFIREPUMP in FGRICE).	practices.	56	T/YR	PERIOD	0			0		
111 0 121	2	0/20/2010	(Edineroni mionee)	Dieses	500	TE TR	i '	practices.	50	17.110	TERROD				0		
							A 260 brake horsepower (bhp) diesel-fueled emergency										
							engine manufactured in 2011 or later and a										
							displacement of <10 liters/cylinder. Powers a fire pump										
							used for a back up during an emergency										
							(EUFPENGINE). Restricted to 1 hour/day, except				12 MO.						
N (1 0 4 2 2	INDECK NILES,	1/4/2017	EUFPENGINE (Emergency	n: 1	1.77	NO COTTUNY	during emergency conditions and stack testing, and 100		12.50	TATE	ROLLING TIME						
MI-0423	GRAYLING	1/4/2017	enginediesel fire pump)	Diesel	1.66	MMBTU/H	hours/year on a 12-month rolling time period basis.	Good combustion practices	13.58	T/YR	PERIOD 12-MO	0	-		0		_
	PARTICLEBOAR		EUFIREPUMP in FGRICE				One diesel fire pump engine rated at 400 KW	Good combustion and design			ROLLING TIME						
MI-0425	D	5/9/2017	(Diesel fire pump engine)	Diesel	500	H/YR	(EUFIREPUMP in FGRICE).	practices.	56	T/YR	PERIOD	0			0		
111 0 123	2	5/5/201/	(Dieser ine pamp engine)	Dieses	500	12.11	(Defined out in Green).	practices.	50	17.110	TEIGOD				-		
	MEC NORTH,						A 300 HP diesel-fired emergency fire pump engine with				12-MO						
	LLC AND MEC		EUFPENGINE (South Plant):				a model year of 2011 or later, and a displacement of <30				ROLLING TIME						
*MI-0433	SOUTH LLC	6/29/2018	Fire pump engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	Good combustion practices.	85.6	T/YR	PERIOD	0			0		
	MEC NORTH, LLC AND MEC		EVERENCE OF A N. O.				A 300 HP diesel-fired emergency fire pump engine with a model year of 2011 or later, and a displacement of <30				12-MONTH ROLLING TIME						
*MI-0433	SOUTH LLC	6/29/2018	EUFPENGINE (North Plant): Fire pump engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	Good combustion practices	85.6	T/YR	PERIOD	0					
-WII-0433	SOUTHELL	0/29/2018	The pump engine	Diesei	300	III	iners/cylinder. Equipped with a dieser particulate inter.	Good combustion practices.	83.0	1/1K	FERIOD	0			0		
	BELLE RIVER						A 399 brake HP diesel-fueled emergency fire pump										
	COMBINED						engine with a model year of 2011 or later, and a				12-MO						
	CYCLE POWER		EUFPENGINE: Fire pump				displacement of <10 liters/cylinder. The engine is an				ROLLING TIME						
*MI-0435	PLANT	7/16/2018	engine	Diesel	399	BHP	EPA Tier 3 certified engine subject to NSPS IIII.	Energy efficient design	86	T/YR	PERIOD	0			0		
	CRICKET																
	VALLEY																
	ENERGY			ultra low sulfur				Good combustion practice and		1		I				1	
NY-0103	CENTER	2/3/2016	Emergency fire pump	diesel	460	hp		efficient engine design.	115	TPY	MO	0			0		ļI
	1			1				Equipment specifications and good		1		I				1	
	BEAUMONT			1				Equipment specifications and good combustion practices. Operation		1		I				1	
TX-0799	TERMINAL.	6/8/2016	Fire pump engines	diesel	0			limited to 100 hours per year.	72.16	T/YR		l _o			lo.	1	1
135-0777	T AND THE STATE OF	0.0/2010	. ne pamp engines	and the same of th				manea to 100 nours per year.	/2.10		12 MO				ľ		
	GREENSVILLE		DIESEL-FIRED WATER	1				Good Combustion			ROLLING	1					
*VA-0325	POWER STATION	6/17/2016	PUMP 376 bph (1)	DIESEL FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total)	Practices/Maintenance	104	T/YR	TOTAL	0			0		
	KENAI																
	NITROGEN			1			2.7 MMBtu/hr Diesel Fired Well Pump. Installed in					1					
*AK-0083	OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	1966.	Limited Operation of 168 hr/yr.	37.2	T/YR		0			0		
	IOWA			1						1	AVERAGE OF 3	I				1	
	FERTILIZER	1.0/2//2012	r: n		1,,	C 17 77	. 10 205 7777		1.55	CALLY II	STACK TEST				L		
IA-0105	COMPANY IOWA	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	1.55	G/KW-H	RUNS AVERAGE OF 3	U	-		10		┼──┤
	FERTILIZER			1							STACK TEST	I			1	1	1
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.0001	G/KW-H	RUNS	0			0		
	IOWA				ř.			g				-					
	FERTILIZER			1							ROLLING 12	1					
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	91	T/YR	MONTH TOTAL	0			0		<u> </u>
	CRONUS							Tier IV standards for non-road									
	CHEMICALS,			1				engines at 40 CFR 1039.102, Table				I			1	1	1
*IL-0114	LLC	9/5/2014	Firewater Pump Engine	distillate fuel oil	373	hp	1	7.	72	T/YR	l	[0			[0		

Table D-E-9 Greenhouse Gases (GHG) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

	1		1	1			I			1	1					1	
	FACILITY	PERMIT ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS		LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
											12						
	ST. JOSEPH						THE TWO FIREWATER PUMP ENGINES,				CONSECUTIVE						
	ENEGRY		TWO (2) FIREWATER PUMP				IDENTIFIED AS FP01 AND FP02, EXHAUSTING	GOOD ENGINEERING DESIGN			MONTH						
*IN-0158	CENTER, LLC MIDWEST	12/3/2012	DIESEL ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS. OPERATION LIMITED TO 500 HOURS PER YEAR.	AND FUEL EFFICIENT DESIGN	172	T/YR	PERIOD	0			0		
	FERTILIZER						INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP		500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	0			0		
	OHIO VALLEY		DIESEL-FIRED														
	RESOURCES,		EMERGENCY WATER					GOOD COMBUSTION									
*IN-0179	LLC	9/25/2013	PUMP	NO. 2 FUEL OIL	481	BHP	ANNUAL OPERATION LIMITED TO 200 HR,	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	0			0		
	MIDWEST FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	0			0		
												_					
	NINEMILE POINT																
	ELECTRIC GENERATING							PROPER OPERATION AND									
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIECEI	350	НР		GOOD COMBUSTION PRACTICES	163	LB/MMBTU					163	LB/MMBTU	
LA-0234	PLANI	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	330	пг		PRACTICES	103	LB/MMB1U		0			103	LB/MMB1U	
	NINEMILE POINT																
	ELECTRIC							PROPER OPERATION AND									
	GENERATING							GOOD COMBUSTION									
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	0.0014	LB/MMBTU		0			0.0014	LB/MMBTU	
	NINEMILE POINT																
	ELECTRIC							PROPER OPERATION AND									
	GENERATING							GOOD COMBUSTION									
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	0.0061	LB/MMBTU		0			0.0061	LB/MMBTU	
	SALEM HARBOR STATION																
	REDEVELOPMEN						≤ 300 hours of operation per 12-month rolling period										
*MA-0039	T	1/30/2014	Fire Pump Engine	ULSD	2.7	MMBtu/hr	S in ULSD: ≤0.0015% by weight		162.85	LB/MMBTU		0			0		
	Ī		INTERNAL COMBUSTION														
	CPV ST		ENGINE - EMERGENCY														
MD-0040	CHARLES	11/12/2008	FIRE WATER PUMP	DIESEL	300	HP			3	G/B-HP-H		0			0		
							This is a diesel fuel fired emergency backup fire mump. It has a capacity of 315 hp, nameplate, and uses diesel										
							fuel ASTM D975 Grade 2-D S15.										
	THETFORD		EU-FPENGINE: Diesel fuel				Ultra low sulfur diesel fuel (15ppmw); 100 hours per										
	GENERATING		fired emergency backup fire				year operation for maintenance and readiness testing.	Proper combustion design and ultra			12-MO. ROLL						
*MI-0410	STATION	7/25/2013	pump	diesel fuel	315	hp nameplate	NSPS IIII and NESHAP ZZZZ.	low sulfur diesel fuel.	15.6	T/YR	TIME PERIOD	0			0		
	HOLLAND						A 165 hoursepower (hp) diesel-fueled emergency engine										
	BOARD OF						manufactured in 2013, iwth a heat input of 1.35										
	PUBLIC WORKS -						MMBTU/hr. Powers a fire pump used for back up				12-MO						
	EAST 5TH		Emergency EngineDiesel				during an emergency (EUFPENGINE). Restricted to				ROLLING TIME						
*MI-0412	STREET	12/4/2013	Fire Pump (EUFPENGINE)	Diesel	165	HP	500 hours/year on a 12-month rolling time period basis.	Good combustion practices	0.29	T/YR	PERIOD	0			0		
	OREGON CLEAN ENERGY						222 9 LW F				PER ROLLING						
*OH-0352	CENTER	6/18/2013	Emergency fire pump engine	diacal	300	НР	223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per rolling 12 months.		87	T/YR	12-MONTHS	l.			l ₀		
311-0332	CENTER	0/10/2013	Lineigency me pump engine	uicaci	500	111	The Permittee shall select and install any of the turbine		07	1/1K	12-WON1113	· ·			1		
	1						options listed below (or newer versions of these turbines	s			1				1		
	1						if the				1				1		
	1						Department determines that such newer versions										
	1						achieve equivalent or better emissions rates and exhaust				1				1		
	1						parameters)										
	1						General Electric 7FA (GE 7FA) Siemens SGT6-5000F (Siemens F)				1				1		
	1						Siemens SG16-5000F (Siemens F) Mitsubishi M501G (Mitsubishi G)				12-MONTH				1		
	HICKORY RUN						4. Siemens SGT6-8000H (Siemens H)				ROLLING				1		
	ENERGY		COMBINED CYCLE UNITS				The emissions listed are for the Siemens SGT6-8000H				TOTAL FOR						
*PA-0291	STATION	4/23/2013	#1 and #2	Natural Gas	3.4	MMCF/HR	unit.		3665974	T/YR	BOTH UNITS	0			0		
	HICKORY RUN			ULTRA LOW													
en	ENERGY	4/22/2012	EMERGENCY FIREWATER	SULFUR	2.25	NO CONTUNI	EN CEN CEN CON EMPENANTED DANS OF CASE THE		22.0	TATE	12-MONTH		1		L		
*PA-0291	STATION	4/23/2013	PUMP	DISTILLATE	3.25	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)		33.8	T/YR	ROLLING BASIS	Įυ	1		10		

Table D-E-9 Greenhouse Gases (GHG) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

	1		1														
		PERMIT													STANDARD		
DDY CVD		ISSUANCE	PROCEED NAME	DDDG A DV PVPV	THEOLOGICAL	THROUGHPUT	PROCESS NOTES	CONTROL METHOD	EMISSION	x rayreno	AVG TIME	EMISSION	XIN ITTO	AVG TIME	EMISSION	X IN IX IT IS	AVG TIME
RBLCID	NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	BERKS HOLLOW																
	ENERGY ASSOC																
	LLC/ONTELAUN																
*PA-0296	EE ENERGY	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr			19	T/YR		10			0		
	ANSWERS																
	ARECIBO																
	PUERTO RICO																
	RENEWABLE						The Emergency Fire Pump is rated at 335 BHP and										
	ENERGY						limited to 500 hr/yr (emergency operations and testing										
*PR-0009	PROJECT	4/10/2014	Emergency Diesel Fire Pump	LILSD Fuel Oil #2	0		and maintenance, combined).		91.3	T/YR		0			0		
110000	I KOJECI	010/2011	Emergency Dieser Fire Fump	OLOD Tuel On #2			Shall not exceed 100 hours of non-emergency operation		71.5			1			ı -		
	GUADALUPE				1		on a 12-month rolling basis and shall be operated and					1					
	GENERATING						maintained in accordance with the manufacturer's										
*TX-0753	STATION	12/2/2014	Fire Water Pump Engine	ULSD	1.92	MMBtu/hr (HHV)	recommendations.		15.71	T/YR		0			0		
						` /											
							Indeck will be equipped with one nominally rated 175-										
							hp diesel-fired pump engine to provide water in the										
							event of a fire. The fire water pump will operate a										
	INDECK						maximum of 52 hours of non-emergency operation on a										
	WHARTON						12-month rolling basis for testing and maintenance. The				12-MONTH						
	ENERGY						fire water pump engine emissions represent 0.003% of				ROLLING						
*TX-0757	CENTER	5/12/2014	Firewater Pump Engine	ULSD	175	hp	the total facility-wide GHG emissions.		5.34	T/YR	TOTAL	0			0		
	ECTOR COUNTY ENERGY										12-MONTH ROLLING						
*TX-0758		8/1/2014	r: . n r :	n: 1					_	T/YR	TOTAL						
*1X-0/58	CENTER	8/1/2014	Firewater Pump Engine	Diesel	0)	I/YK	TOTAL	0		_	0		
	GATEWAY																
	COGENERATION																
	1, LLC - SMART			diesel (ultra low							12 MO						
VA-0319		8/27/2012	FIRE WATER PUMP	sulfur)	1.86	MMBTU/H	500 H/Yr operation	Fuel-efficient design	30.5	T/YR	ROLLING AVG	0			0		
	MOUNDSVILLE																
	COMBINED																
	CYCLE POWER																
*WV-0025	PLANT	11/21/2014	Fire Pump Engine	Diesel	251	HP	Limited to 100 Hours/year.		309	LB/H		0	1		0		
	ROCK SPRINGS						<u> </u>										
	FERTILIZER				1			limited to 500 hours of operation				1					
*WY-0076	COMPLEX	7/1/2014	Fire Water Pump Engine	Diesel	200	horsepower	limited to 500 hours of operation	per year	58	T/YR	ANNUAL	0			0		
	ROCK SPRINGS				1							1					
I	FERTILIZER	l	L	L	l	l.	L	limited to 500 hours of operation			1	I.			1.		
*WY-0076	COMPLEX	7/1/2014	Fire Water Pump Engine	Diesel	200	horsepower	limited to 500 hours of operation	per year	58	T/YR	ANNUAL	0	-	_	0		
	MIDWEST FERTILIZER				1		OPERATION NOT TO EXCEED 500 HOURS PER YEAR, INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION				1					
any 0100		6/4/2014	DAW WATER BUMB	DIEGEL NO 2	500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	2 UD AVED CE	ا					
*IN-0180	MIDWEST	0/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	nr	OPERATION NOT TO EXCEED 500 HOURS PER	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	10	-		T ^U		-
	FERTILIZER	l	1		1		YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION	1				1				
*IN-0173	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	ا ا	1		0		
1N-01/3	Russell City	0/4/2014	KAW WAIER PUMP	DIESEL, NO. 2	300	III	TESTED.	FRACILES	321.4	G/В-ПР-П	3-11K AVEKAGE	10	 	1	1	—	
	Energy Company,				1							1					
	LLC		Fire Pump	ULSD	300	HP			7.6	T/YR	12-month rolling	1					
	Kalama Energy			Ultra Low Sulfur					1		- month rolling						
	Center		Fire pump engine	Diesel	240	bhp			7.1	T/YR	12-month Rolling	:					
l-				•	•									•		-	•

Table D-F-1 Greenhouse Gases (GHG) RBLC Search - Natural Gas Piping Components Invenergy, LLC - Allegheny County Energy Center Project

								1		_	1	1	_	_		I	
		PERMIT ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNIT	AVG TIME CONDITION	LIMIT 2	UNIT	CONDITION	STANDARAD EMISSION LIMIT	UNIT	CONDITION
								Implement a leak detection and									
LA-0316	CAMERON LNG FACILITY	02/17/2017 ACT	fugitive emissions					repair (LDAR) program to minimize the leak									
LA-0310	CAMERON ENGLACIETT	enosp, AC1	lugitive chiissions						ľ								
	JACKSON COUNTY	06/30/2017						weekly checks for leaks using audio, visual, and olfactory (AVO)									
TX-0824	GENERATING FACILITY	ACT	Natural Gas Fugitives		0			sensing for natural gas leaks	693.3	T/YR							
TX-0827	PRAXAIR CLEAR LAKE PLANT	10/19/2017	HyCO FUGITIVES		_				L								
1X-0827	PLANT	ACT 10/20/2017	HyCO FUGITIVES		0				10								
*TX-0830	PRAXIAR CLEAR LAKE	ACT	HYCO FUGITIVES		0				0								
*TX-0832	EXXONMOBIL BEAUMONT REFINERY	01/09/2018 ACT	FUGITIVES		0			AVO	758	TON/YR							
170 0002	KLI ITLKI	Consp., ic i						Best management practices to	750	10.011							
		04/26/2018	Equipment Leaks from Natural Gas					prevent, detect and repair leaks of natural gas from the piping									
*VA-0328	C4GT, LLC	ACT	Components		0		Work practice requirements	components.	0								
*CO-0067	LANCASTER PLANT	6/4/2013	Fugitive emissions from leaking components	1	0			LDAR	0			0			0		
*CO-0068	LUCERNE GAS PROCESSING PLANT	1/13/2014	Fugitive emissions from leaking components	1	0		Fugitive emission component leaks from a natural gas processing plant associated with the expansion project.	LDAR	200	TON COZE	PER YEAR	0			0		
	PORT DOLPHIN ENERGY		Fugitive GHG		1			a gas and leak detection system will	-30	10.1 CO2E	. LIK I LOTIK				-		
*FL-0330	LLC	12/1/2011	emissions		0	+	Process Piping fugitives	be used.	0		1	0		1	0		
								USE OF A LEAK DETECTION									
	NIDIANA GAGIETGATION		FIGURE I FARO				NELL DE CONTROLLED DV 1 LE 18 DETECTION AND	AND REPAIR (LDAR)									
	INDIANA GASIFICATION, LLC	6/27/2012	FUGITIVE LEAKS FROM PIPING		0		WILL BE CONTROLLED BY A LEAK DETECTION AND REPAIR (LDAR) PROGRAM.	PROGRAM FOR THE NATURAL GAS AND SNG PIPING	0			0			0		
	EUNICE GAS EXTRACTION		Process Fugitives (16)				<u> </u>	LDAR programs: NSPS KKK and									
*LA-0266	PLANT	5/1/2013	(FUG 0001)		0			LAC 33:III.2121 Compliance with LDAR programs	0			0			0		
								under 40 CFR 60 Subpart OOOO,									
*LA-0271	PLAQUEMINE NGL FRACTIONATION PLANT	5/24/2013	Fugitive Emissions (FUG-01)					LAC 33:III.2111, and LAC 33:III.2122									
*LA-02/1	FRACTIONATION PLANT	5/24/2013	(FUG-01)		0			IMPLEMENTATION OF AN	0			0			0		
								AUDIO, VISUAL AND									
			FUGITIVE GHG					OLFACTORY (AVO) PROGRAM ON A WEEKLY	1								
*MD-0041	CPV ST. CHARLES	4/23/2014	EMISSIONS		0			BASIS	0			0			0		
							NATURAL GAS PIPELINE COMPONENTS, INCLUDING VALVES, CONNECTORS, FLANGES, PUMP SEALS AND										
	WILDCAT POINT						PRESSURE RELIEF VALVES WITHIN THE FACILITY										
*MD-0042	GENERATION FACILITY	4/8/2014	EQUIPMENT LEAKS		0		BOUNDARY		0			0			0		
*PA-0301	CARPENTER COMPRESSOR STATION	3/31/2014	Equipment Leaks	Natural Gas	0				0			0			0		
							The Permittee shall implement the TCEQ 28VHP and 28 CNTQ leak detection and repair (LDAR) programs for fugitive										
							emissions of methane. The Permittee shall implement an as-										
							observed AVO program to monitor for fugitive emissions between instrumented monitoring. Permittee will install leakless										
							pumps and compressors equipped with a shaft sealing system that										
							prevents or detects emissions of VOC from the seal. Permittee										
	C3 PETROCHEMICALS, PDH						will amend the permit if the fugitive equipment count and emission estimates of the count/emission estimate exceeds the			TPY OF	12-MONTH						
*TX-0744	CHOCOLATE BAYOU PLANT	6/12/2014	Process Fugitives		0		representations in the application.		4	CO2E	ROLLING TOTA	L 0		12-MONTH	0		
											12-MONTH ROLLING TOTA	L		12-MONTH ROLLING TOTA	L		
	C3 PETROCHEMICALS, PDH									% THERM	/TRAIN WITH			/TRAIN WITH			
*TX-0744	CHOCOLATE BAYOU PLANT	6/12/2014	Process Heaters	-	0	+			87	EFF	MSS	230308	TPY CO2E	MSS	0	<u> </u>	
	NUEVO MIDSTREAM,									CO2E/PLAN	12-MONTH						
*TX-0746	RAMSEY GAS PLANT	11/18/2014	Process Fugitives		0	+			185	T	ROLLING	0			0		
	FRACTIONATORS, MONT		Fugitive Process														
*TX-0747	BELVIEU GAS PLANT	4/16/2014	Emission		0	1			0			0			0		
*TX-0748	FGE POWER, FGE TEXAS PROJECT	4/28/2014	SF6 Fugitive Emission Sources		0				0			0			0		
	FGE POWER, FGE TEXAS		Natural Gas Fugitive						1		1						İ
*TX-0748	PROJECT	4/28/2014	Emission Sources	-	0	+	Emissions from niping components (valves and florose)		0	+	-	0	+		0		
			1				Emissions from piping components (valves and flanges) associated with this project consist of methane (CH4) and carbon										
							dioxide (CO2). Because a majority of the GHG fugitives comes from methane and the GWP is higher for methane, a conservative										
	GUADALUPE GENERATING		Components Fugitive				estimate was done to assume that all piping components are in a										
*TX-0753	STATION	12/2/2014	Leak Emissions		0	1	rich methane stream.		0		-	0			0		
							Fugitive emissions from piping components (valves and flanges)										
			1				associated with this project consist of methane (CH4) and CO2.										
							Because a majority of the GHG fugitive emissions come from methane and the GWP is higher for methane than CO2, a										
	INDECK WHARTON ENERGY	-	Components Fugitive				conservative estimate was done to assume that all piping										
*TX-0757	CENTER	5/12/2014	Leak Emissions		0	1	components are in a rich methane stream.		0	1		0			0		
*TX-0758	ECTOR COUNTY ENERGY CENTER	8/1/2014	Components Fugitive Leaks		0				0			0			0		
	GOLDEN PASS LNG EXPORT							Work practice –leak detection	ľ			1			-		
*TX-0766	TERMINAL	9/11/2015	Fugitive Emissions	l	[0	1	1	and repair program	2569	TPY	1	[0		1	[0		L

Table D-F-1 Greenhouse Gases (GHG) RBLC Search - Natural Gas Piping Components Invenergy, LLC - Allegheny County Energy Center Project

RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES		EMISSION LIMIT 1		AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	AVG TIME CONDITION
	SABINE PASS LNG							conduct a leak detection and repair			ANNUAL					
LA-0257	TERMINAL	12/6/2011	Fugitive Emissions		0			(LDAR) program	89629	TONS/YR	MAXIMUM	0			0	
	THOMAS C. FERGUSON		Fugitive Natural Gas								365-DAY ROLLING					
TX-0612	POWER PLANT	11/10/2011		Natural Gas	0		Fugitive NG emissions from piping components		327.2	T/YR	AVERAGE	0			0	
	THOMAS C. FERGUSON		Fugitive Natural Gas													
TX-0612	POWER PLANT	11/10/2011	emissions_NG-FUG	Natural Gas	0		Fugitive NG emissions from piping components		16.2	T/YR		0			0	
TX-0632	DEER PARK ENERGY CENTER LLC	11/29/2012	NG-FUG	Natural Gas	0		Fugitive Natural I Gas emissions from piping components (including valves and flanges)		0.11	T/YR	365-DAY ROLLING AVERAGE	0			0	
TX-0632	DEER PARK ENERGY CENTER LLC	11/29/2012	NG-FUG	Natural Gas	0		Fugitive Natural I Gas emissions from piping components (including valves and flanges)		2.84	T/YR	365-DAY ROLLING AVERAGE	0			0	
TX-0633	CHANNEL ENERGY ENERGY CENTER, LLC	11/29/2012	NG-FUG	Natural Gas	0		Fugitive Natural Gas emissions from piping components (including valves and flanges)		0.29	T/YR	365-DAY ROLLING AVERAGE	0			0	
TX-0633	CHANNEL ENERGY ENERGY CENTER, LLC	11/29/2012	NG-FUG	Natural Gas	0		Fugitive Natural Gas emissions from piping components (including valves and flanges)		7.44	T/YR	365-DAY ROLLING AVERAGE	0			0	

Table D-G-1 Greenhouse Gases (GHG) RBLC Search - Circuit Breakers Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	OKEECHOBEE CLEAN	03/09/2016						Leak prevention. Must have manufacturer-guaranteed leak rate no more than 0.5% per year. Must be equipped with leakage detection systems and		% LEAK							
FL-0356	ENERGY CENTER	ACT	Circuit breakers		0		Approximately 17 circuit breakers.	alarms.	0.5	PER YEAR							
*FL-0363	DANIA BEACH ENERGY CENTER	12/04/2017 ACT	Circuit breakers (two)		0		Sulfur hexafluoride (SF6) circuit breakers, leak rate no more than 0.5% per year	Certified leak rate < 0.5% per year	0.5	% LEAK PER YEAR							
							(8) sulfur hexafluoride insulated circuit breakers and are to be state-of-the-										
							art sealed enclosed-pressure circuit breakers equipped with leak detection equipment that: 1) alerts the operator when 10% of the SF6 by weight has										
*PA-0310	CPV FAIRVIEW ENERGY CENTER	09/02/2016 ACT	Circuit breakers				escaped for any breaker and 2) alerts the operator when a leak exceeds 5000 ppm from any breaker.	State-of-the-art sealed enclosed-pressure circuit breakers with leak detection	1500	PPM							
174-0310	ENERGY CENTER	жиоэр, че т	Sulfur hexafluoride		0		5000 ppin nom any oreacer.	detection	1500	FFM							
			(SF6) insulated														
TX-0824	JACKSON COUNTY GENERATING FACILITY	06/30/2017 ACT	Electrical Equipment		0		The facility will consist of Four SF6 insulated circuit breakers.	The use of circuit breakers with totally enclosed insulation systems equipped with a low pressure alarm and low pressure lockout is BACT	34.4	T/YR							
	JACKSON COUNTY	06/30/2017	Natural Gas					weekly checks for leaks using audio, visual, and olfactory (AVO) sensing									
TX-0824	GENERATING FACILITY	ACT 04/26/2018	Fugitives		0		Quantity 6	for natural gas leaks Enclosed-pressure design with low-pressure detection system (with	693.3	T/YR							
*VA-0328	C4GT, LLC	ACT	Circuit Breakers - 6 Equipment Leaks		0.5	%	Annual leakage rate	alarm).	0								
		04/26/2018	from Natural Gas					Best management practices to prevent, detect and repair leaks of natural									
*VA-0328	C4GT, LLC	ACT	Components ENCLOSED		0		Work practice requirements	gas from the piping components.	0								
	PALMDALE HYBRID		PRESSURE SF6 CIRCUIT				0.5% BY WT ANNUAL LEAKAGE RATE				12-MONTH ROLLING						
CA-1212	POWER PROJECT	10/18/2011	BREAKERS		0		10% BY WT LEAK DETECTION SYSTEM		9.56	T/YR	TOTAL	0			0		
								INSTALL, OPERATE, AND MAINTAIN ENCLOSED-			TONS PER						
	PIO PICO ENERGY		CIRCUIT					PRESSURE SF6 CIRCUIT BREAKERS WITH A MAXIMUM			CALENDAR						
CA-1223	CENTER MARSHALLTOWN	11/19/2012	BREAKERS		0		3 switchyard and 2 generator breakers containing SF6.	ANNUAL LEAKAGE RATE OF 0.5% BY WEIGHT	40.2	T/YR	YEAR	0			0		
	GENERATING									PERCENT	CALENDAR				_		
*IA-0107	STATION	4/14/2014	circuit breakers		0		SF6 losses from circuit breakers		0.5	LOSS	YEAR 12	0			0		
	ST. JOSEPH ENEGRY		ELECTRICAL CIRCUIT				THE SIX (6) BREAKER, IDENTIFIED AS EMISSIONS UNIT	ALTERNATIVE TECHNOLOGY			CONSECUTIVE		% DESIGN				
*IN-0158	CENTER, LLC	12/3/2012	BREAKERS		0		SF6, CONTAIN SULFUR HEXAFLUORIDE (SF6)	DETECTION BREAKERS WITH LEAK	0.0009	TONS	PERIOD	0.5	RATE		0		
			ELECTRIC				CONTAINING SULFUR HEXAFLUORIDE (SF6) IDENTIFIED AS EMISSIONS UNIT FUG-SF6, PERMITTED	LISE OF FULLY ENGLOSED BRESSURIZED SEA CIRCUIT									
	INDIANA		CIRCUIT				IN 2012, WITH FUGITIVE GHG EMISSIONS CONTROLLED	BREAKERS WITH LEAK DETECTION (LOW PRESSURE									
*IN-0166	GASIFICATION, LLC	6/27/2012	BREAKER		0		BY FULL ENCLOSURE.	ALARM)	0			0			0		
							GHG BACT FOR THE CIRCUIT BREAKERS SHALL BE INSTALLATION OF STATE-OF-THE-ART CIRCUIT										
							BREAKERS THAT ARE DESIGNED TO MEET ANSI C37.013 OR FOLITY ALENT TO DETECT AND MINIMIZE SE6										
							LEAKS. LEAKS DETECTED SHALL BE REPAIRED WITHIN										
*MD 0041	CPV ST. CHARLES	4/23/2014	CIRCUIT BREAKERS		0		FIVE DAYS OF DISCOVERY; REPAIRS DOCUMENTED, AND ASSOCIATED REPAIR RECORDS MAINTAINED		0			0					
WID-0041		4/23/2014	DREAKERS		0		AND ASSOCIATED REPAIR RECORDS MAINTAINED					0					
	WILDCAT POINT GENERATION		CIRCUIT					INSTALLATION OF STATE-OF-THE-ART CIRCUIT BREAKERS THAT ARE DESIGNED TO MEET ANSI C37.013									
*MD-0042	FACILITY	4/8/2014	BREAKERS		0			OR EQUIVALENT TO DETECT AND MINIMIZE SF6 LEAKS	0			0			0		
								GHG BACT FOR THE CIRCUIT BREAKERS SHALL BE									
	WILDCAT POINT GENERATION		CIRCUIT					INSTALLATION OF STATE-OF-THE-ART CIRCUIT BREAKERS THAT ARE DESIGNED TO MEET ANSI C37.013									
*MD-0042	FACILITY	4/8/2014	BREAKERS		0			OR EQUIVALENT TO DETECT AND MINIMIZE SF6 LEAKS	0			0			0		
			SF6 Insulated								365-DAY						
	THOMAS C.		Electric				English animina CES for instant distant.				ROLLING						
TX-0612	FERGUSON POWER PLANT	11/10/2011	Equipment_SF6- FUG		0		Fugitive emissions, SF6, from insulated electric equipment(circuit breakers)		131	T/YR	AVERAGE (USE AS CO2E)	0.006	LB/H		0		
	DEER PARK ENERGY						SF6 Insulated Electrical Equipment (i.e., circuit breakers) consisting of one new 72 lb SF6 insulated generator circuit			1							
TX-0632	CENTER LLC	11/29/2012	SF6-FUG		0		breaker.		0.0002	T/YR		0			0		
	CHANNEL ENERGY						Because the emissions from this unit are calculated to be over			1	365-DAY						
TX-0633	ENERGY CENTER,		are rue	L			99.9% carbon dioxide (CO2), the remaining		0.0002	T/YR	ROLLING AVERAGE						
1.X-0633		11/29/2012	SF6-FUG	Natural Gas	U		pollutant emissions (CH4 and N2O) are not presented in the table.		0.0002	1/YR	AVERAGE	U			U		
*TX-0748	FGE POWER, FGE TEXAS PROJECT	4/28/2014	SF6 Fugitive Emission Sources		0							0					
1A-0/48		7/20/2014	Littession Sources		v				0	1		v			V		
	GOLDEN SPREAD ELECTRIC		Fugitive Emissions from				The circuit breakers associated with the proposed units will be insulated with SF6. The capacity of the circuit breakers associated										
	COOPERATIVE,		SF6 Circuit				with the proposed plant expansion is currently estimated to 2920			1	WORK						
*TX-0749	ANTELOPE STATION	6/2/2014	Breakers	1	0		lbs SF6.	l .	0	1	PRACTICE	0	1	1	[0		

Table D-G-1 Greenhouse Gases (GHG) RBLC Search - Circuit Breakers Invenergy, LLC - Allegheny County Energy Center Project

RBLCID		PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2		STANDARAD EMISSION LIMIT	AVG TIME CONDITION
	GOLDEN SPREAD		Fugitive				The circuit breakers associated with the proposed units will be								į <i>!</i>
	ELECTRIC		Emissions from				insulated with SF6. The capacity of the circuit breakers associated								i l
	COOPERATIVE,		SF6 Circuit				with the proposed plant expansion is currently estimated to 2920				WORK				j /
*TX-0749	ANTELOPE STATION	6/2/2014	Breakers		0		lbs SF6.		0		PRACTICE	0		0	
															i l
							The circuit breakers associated with the proposed units will be								j /
	GUADALUPE		Fugitive SF6				insulated with SF6. The capacity of the circuit breakers associated								i l
	GENERATING		Circuit Breaker				with the proposed plant expansion is currently estimated to be two								i l
*TX-0753	STATION	12/2/2014	Emissions		0		(2) breakers of 690 lb SF6 each.		0			0		0	
															j /
							The circuit breakers associated with the proposed units will be								i l
							insulated with SF6. The capacity of the circuit breakers associated								i l
			Fugitive SF6				with the proposed plant expansion is currently estimated to be								i l
I	INDECK WHARTON		Circuit Breaker Emissions		_		three (3) breakers with 24.2 lbs SF6 each, and eleven (11) HV		_			_			i l
*TX-0757	ENERGY CENTER	5/12/2014			0		power circuit breakers with 550 lbs SF6 each.		0			0		0	
1	ECTOR COUNTY		Fugitive SF6 Circuit Breaker												, <i>!</i>
*TX-0758		8/1/2014	Emissions		0				0			0		0	, <i>!</i>
121 0738	GATEWAY	0.112017	L.IIIIAAAAIS									1		ļ*	
1	COGENERATION 1,		ELECTRIC												, <i>!</i>
1	LLC - SMART WATER		CIRCUIT												, <i>!</i>
VA-0319	PROJECT	8/27/2012	BREAKERS, (4)		60	LB/SF6	Enclosed pressure circuit breaker.	Enclosed pressure circuit breaker.	28.6	T/YR	12 MO AVG	0		0	i l

RRLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHBUT	THROUGHPUT UNIT	BBO/FCC NOTEC	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
		06/30/2017			Inkoughrui	THROUGHPUT UNIT	Multiple fuel tanks, the largest of which are EUs 126 - 140 with capacities of 2.5 million gallons each. These tanks will emit VOCs.	CONTROL METHOD DESCRIPTION	LIMITI			LIMIT 2	UNII	CONDITION	EMISSION LIMIT	UNII	CONDITION
*AK-0084	DONLIN GOLD PROJECT	ACT	Fuel Tanks	Diesel	0		of 2.5 million gallons each. These tanks will emit VOCs.	Submerged Fill THE USE OF GOOD DESIGN AND OPER ATING	1.7	TPY	YEARLY						
l		06/22/2017	DIESEL STORAGE TANK					PRACTICES. EACH TANK SHALL UTILIZE A FIXED	_								
IN-0273	ST. JOSEPH ENERGY CENTER	ACT	TK11	DIESEL	650	GALLONS		ROOF. THE USE OF GOOD DESIGN AND OPERATING	0								-
IN-0273	ST. JOSEPH ENERGY CENTER	06/22/2017 ACT	DIESEL STORAGE TANK TK50	DIESEL	5000	GALLONS		PRACTICES. EACH TANK SHALL UTILIZE A FIXED ROOF.	0								
LA-0276	BATON ROUGE JUNCTION FACILITY	12/15/2016	Tank 190 (EQT0036 - IFR)														
		12/15/2016	Vertical Fixed Roof Tanks		0		volume = 48,000 bbls Tanks 174 and 175: volumes = 125,000 bbls	Internal floating roof and submerged fill pipe	0								-
LA-0276	BATON ROUGE JUNCTION FACILITY	ACT	174, 175, 176		0		Tank 176: volume = 250,000 bbls T12-900 = 12.690 gals - Fresh Diluent	Submerged fill pipes and pressure/vacuum vents	0								
l							T12-910 = 376,012 gals - Hexene Product T12-911 = 376,012 gals - Hexene Product										
l							T12-912 = 846,027 gals - Octene Product										
l		09/01/2016					T12-913 = 846,027 gals - Octene Product T12-914 = 287844 gals - Recycle Product										
LA-0277	COMONIMER-1 UNIT	ACT	Storage Tanks (7 units)		0		T12-919 = 117,504 gals - Cyclics Pellet Hopper D12-530	Internal Floating roofs (IFR)	0								
l							Pellet Dryer Blower F12-522										
LA-0277	COMONIMER-1 UNIT	09/01/2016 ACT	Hopper, Dryer, Unloading, Water Tank		0		Pellet Water Tank F12-523 Raw Material Unloading		8.33	LBS/HR	HOURLY MAXIMUM						
LA-0277	COMONIMER-1 UNIT	09/01/2016 ACT	C10+ Storage Tank T12-917		88128	gallons		Submerged fill pipe	0								
		09/01/2016	Co-Catalyst Storage Vessel		00120	ganons			0								
LA-0277	COMONIMER-1 UNIT	ACT	and Feed Drum		0			Controlled by Co-Catalyst Vent Absorber External floating roof; complying with 40 CFR	0								+
l			Tanks 6413, 6415, 6418, 6419.					60.112b(a)(2)(iii) during roof landings; limiting the amount of									
l			6420, 6421, & 6422					time between the cessation of pumping out product and the start of liquid heel and sludge removal from the tank floor;									
LA-0304	DEEPWATER PORT COMPLEX	11/21/2016 :ACT	(EQTs 48, 49, 50, 51, 52, 53, & 54)		26093	BBL/D	Tank volume: 371,000 bbl each Throughput = per tank	using a portable thermal oxidizer to control emissions from						1			
		py4	17-7				D become	tank cleaning operations External floating roof; complying with 40 CFR 60.112b(a)(2)(iii) during roof landings; limiting the amount of									
l								time between the cessation of pumping out product and the									
l		11/21/2016	Tanks 6423, 6424, 6425, & Camp; 6426 (EQTs 55, 56, 57,				Tank volume: 600,000 bbl each	start of liquid heel and sludge removal from the tank floor; using a portable thermal oxidizer to control emissions from									
LA-0304	DEEPWATER PORT COMPLEX	ACT	& 58)		27397	BBL/D	Throughput – per tank	using a portable thermal oxidizer to control emissions from tank cleaning operations	0								
		06/30/2017	MPST-14 - Methanol Product														
*LA-0312	ST. JAMES METHANOL PLANT	ACT 06/30/2017	Surge Tank (EQT0019) MT-13 - Methanol Product	Methanol	41000	gallons	1358 gallons/min. Max Op Rate: 6 turnover/yr	Route emissions to Methanol Product Tanks A & B	0				1	1	1		
*LA-0312	ST. JAMES METHANOL PLANT	ACT	Tank A (EQT0014)	Methanol	54400	barrels	714 MM gallons/yr	Internal Floating Roof Tank and Compliance with NESHAP Subpart G	0								
*LA-0312	ST. JAMES METHANOL PLANT	06/30/2017 ACT	OSMT1-13 - Crude Methanol Tank (EQT0017)	Methanol	54400	barrels	867 MM gallons/yr offspec methanol	Fixed Roof Tank with Scrubber & Compliance with NESHAP Subpart G	0								
		06/30/2017	MT2-13 - Methanol Product			bancis		Internal Floating Roof Tank and Compliance with NESHAP									
*LA-0312	ST. JAMES METHANOL PLANT INDORAMA LAKE CHARLES	ACT 08/03/2016	Tank B (EQT0015)	methanol	54400	barrels	714 MM gallons/yr	Subpart G	0								+
LA-0314	FACILITY INDORAMA LAKE CHARLES	ACT 08/03/2016	oil tank FA-712 - 012		66150	gal		IFR with liquid mounted seal, double seal, or mechanical seal	0								
LA-0314	FACILITY	ACT	storm water surge tank TK-9 - 013		291410	gallons		fixed roof	0								
LA-0314	INDORAMA LAKE CHARLES FACILITY	08/03/2016 ACT	process water storage tanks TK- 301A/B - 017		350000	callons		EFR with primary and secondary seal, submerged fill pipe, and complying with 40 CFR 63 Subpart WW	0								
LA-0314	INDORAMA LAKE CHARLES FACILITY	08/03/2016 ACT	Unleaded Gasoline Tank TK-		1000			Submerged fill pipe and LAC 33:III.2103									
	INDORAMA LAKE CHARLES	08/03/2016	33			gallons			0								-
LA-0314	FACILITY INDORAMA LAKE CHARLES	ACT 08/03/2016	Methanol Tank TK-2		1469	gallons		Submerged fill pipe and LAC 33:III.2103 Closed vent system and routed to a flare, Complying with 40	0								
LA-0314	FACILITY FACILITY	ACT	pyrolysis gasoline tank V-410		946996	gallons		CFR 60 Subpart Kb and LAC 33:III.2103	0								
LA-0316	CAMERON LNG FACILITY	02/17/2017 :ACT	condensate tanks (3 units)		965000	gallons (each)		closed vent system and control devices that meet 40 CFR 60 Subpart Kb	0								
		02/17/2017							_								
LA-0316	CAMERON LNG FACILITY	ACT	diesel tanks (2 units)		54144	gallons (each)	T12-900 = 12,690 gal	equipped with fixed roofs	0								-
l							T12-910 and T12-911 = 376,012 gal T12-912 and T12-913 = 846,027 gal										
LA-0319	LAKE CHARLES CHEMICAL	09/01/2016	Storage tanks (7 tanks)				T12-914 - 287,884 gal T12-919 - 117,5040 gal		_								
	COMPLEX - COMONOMER-1 UNIT LAKE CHARLES CHEMICAL	ACT 09/01/2016			0		112-919 = 117,5040 gai	Equipped with internal floating roofs (IFR)	0								-
LA-0319	COMPLEX - COMONOMER-1 UNIT LAKE CHARLES CHEMICAL	ACT 09/01/2016	storage tank t12-917		88128	gal		Submerged fill pipe	0								
LA-0319	COMPLEX - COMONOMER-1 UNIT	ACT	Catalyst Drum/Vessel		0			Closed vent and routing to a control device (vent absorber)	0				1		1		
	OWENS CORNING INSULATION	04/18/2017	cupola, open top, slag as a raw								MELT, 3 HR AVG,						
MO-0090	SYSTEMS, LLC	ACT 06/29/2017	material, startup burner	metallurgical coke	0		startup burner is natural gas fired	good combustion practices, thermal oxidizer Equipped with EFRs, primary mechanical shoe seals,	0	LB/T TONS/YR/T	EXCLUSIVE S&S		1	1	1		+
OK-0175	WILDHORSE TERMINAL	ACT	250,000 BBL EFR TANKS	NA	10.5	MMBBL/YR/TANK	Six (6) EFR tanks for storage of crude oil.	secondary seals, and drain-dry design.	6.43	ANK	12-MONTH						
OK-0175	WILDHORSE TERMINAL	06/29/2017 ACT	350,000 BBL EFR TANKS	NA	14.7	MMBBL/YR/TANK	Eight (8) EFR tanks for storage of crude oil.	l Equipped with EFRs, primary mechanical shoe seals, and	7.47	TON/YR/TA NK	12-MONTH						
OK-0175		06/29/2017	500,000 BBL EFR TANKS		21	MMBBL/YR/TANK		drain-dry design. Equipped with EFR, primary mechanical shoe seals,	0.70	TON/YR/TA	12-MONTH						
	WILDHORSE TERMINAL	ACT 06/29/2017		NA.	21		Four (4) EFR tanks for storage of crude oil.	secondary seals, and drain-dry design. Equipped with EFR, primary mechanical shoe seal, secondary	8.78	NK.				+	+		+
OK-0175	WILDHORSE TERMINAL BPV GATHERING AND MARKETING	ACT 07/19/2017	20,000 BBL EFR TANK	NA	840	MMBBL/YR	One (1) EFR tank for storage of crude oil.	seal, and drain-dry design. Equipped with EFR, primary mechanical shoe seals,	2.16	TON/YR TONS/YFAI	12-MONTH		1	-	+		+
OK-0176	CUSHING STATION	ACT	250,000 BBL EFR TANKS	NA	54450000	BBL/TANK/YEAR	Twenty-four (24) EFR tanks for crude oil storage.	secondary seals, and drain-dry design.	217.24	/FACILITY	12-MONTH						
								Crude/Condensate storage tanks will have capacities greater									
l								than 25,000 gallons. Crude/condensate has a vapor pressure greater than 0.5 psia at 95ŰF. The storage tanks will be					1				
l		06/22/2016						white internal floating roof tanks with mechanical shoe seals.						1			
TX-0800	CORPUS CRUDE OIL TERMINAL	ACT	Storage Tanks		3655000	BBL/YR		New tanks will be of drain-dry design. Landing, degassing, and refilling events will be controlled by	57.42	T/YR	-		-	-	+		+
l		06/22/2016	Floating Roof Storage Tanks - Controlled Maintenance.				Election of description will be be a first of the control of the c	a VCU or carbon adsorption unit. Degassing will begin									
TX-0800	CORPUS CRUDE OIL TERMINAL	ACT	Startup and Shutdown (MSS)		0		Floating roof storage tanks will be landed, degassed, and refloated for inspection.	within 24 hours of roof landing. All new tanks will be of drain-dry design.	0.8	T/YR					1		
TX-0804	ADN UNIT	07/15/2016 :ACT	Storage Tanks 10TFX022 and 10TFX057		0			60.18 Flare	3.4	T/YR							
		p, w			-		18 new floating roof tanks. These tanks combined with existing storage										
l							vessels shall have a combined site-wide throughput limit of 1,710 MM										
TX-0807	SUNOCO PARTNERS NEDERLAND TERMINAL	08/05/2016 :ACT	Tank Farm		1710	MM BBL / YR	Barrels for each of the following chemicals: Crude Oil, Crude Oil Condensate, Diesel, Fuel Oil, Lube Oil and Petroleum Naphtha	floating roof control BACT, and vent loading emissions to a portable combustion device.	600	T/YR							
13-0807	TERMINAL	ecinosp;AC 1	rank rarm		1710	WIN BBL / TK	Conucusate, Diesel, Fuel Oil, Lube Oil and Petroleum Naphtha	<u> </u>	000	1/1 K			1		1		-
l								Internal floating roof. Integrity of the floating roof seal must be verified through periodic visual inspections and seal gap						1			
TX-0812	CRUDE OIL PROCESSING FACILITY	10/31/2016	Petroleum Liquid Storage in				(26) internal floating roof tanks with capacity of 125 MBbl/each in	measurements. The tank must be constructed with a drain dry	2.04	T/YR	PER TANK			1			
#1A-0812	CRODE OIL PROCESSING FACILITY	ACT 11/22/2016	Floating Roof tanks Petroleum Liquid Storage in		v	1	petroleum liquid service	sump, and an available connection to a control device.	3.04		FER IANK		_	+	+		+
TX-0813	ODESSA PETROCHEMICAL PLANT		Fixed Roof tanks					Submerged fill pipe, reflective or white exterior paint.		T/YR							

		IPERMIT ISSUANCE							TEMISSION		AVG TIME	EMISSION		AVG TIME	STANDARAD		AVG TIME
RBLCID		DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNIT		LIMIT 2	UNIT		EMISSION LIMIT	UNIT	CONDITION
TX-0815	PORT ARTHUR ETHANE SIDE CRACKER	01/17/2017 ACT	STORAGE TANKS		0		Slop oil/wastewater/sludge fixed roof tanks routed a thermal oxidizer	THERMAL OXIDIZER	0								
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2015	Urea UF-85 Storage Tank		30440	gallons		Wet Scrubber	0	LB/H		0			0		
			Two (2) Methyl-diethanol				Two (2) MDEA Storage Tanks with rated capacities of 158,420 gallons and										
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2015	Amine (MDEA) Storage Tanks		158420	gallons	16,000 gallons.	Submerged Fill Design	0.002	T/YR	COMBINED	0			0		
*AR-0124	EL DORADO SAWMILL	8/3/2015	ELEVEN OIL STORAGE TANKS SN-14		0		SN-14, VARIOUS SIZES	ENCLOSED TANKS, TANKS ARE LIGHT COLOR	0.3	LB/H		0			0		
*AR-0124	EL DORADO SAWMILL	8/3/2015	THREE DIESEL STORAGE TANKS SN-15		0		SN-15, THREE, VARIOUS SIZES	TANKS ARE LIGHT COLOR	0.4	LB/H		0			0		
			ONE GASOLINE STORAGE						0.4								
*AR-0124	EL DORADO SAWMILL	8/3/2015	TANK SN-16		0		SN-16, 5,890 GALLONS, ONE TANK	TANKS ARE LIGHT COLOR THE EMISSIONS FROM GROUP A STORAGE TANKS	0.022	LB/MBF		7.6	LB/MMSCF		0		
l								MUST BE COLLECTED BY A VAPOR COMPRESSION SYSTEM AND ROUTED TO THE REFINERY FUEL GAS									
l							THE GROUP A TANKS CONSIST OF SEVERAL TANKS (3.78	SYSTEM. NO EMISSIONS ARE PERMITTED TO BE			SEE THE						
AZ-0046	ARIZONA CLEAN FUELS YUMA	4/14/2005	GROUP A STORAGE TANKS				MILLION GALLONS TO 1.51 MILLION GALLONS) CONTAINING PETROLEUM LIQUIDS.	RELEASED INTO THE AIR EXCEPT FOR EQUIPMENT LEAKS.	0		POLLUTANT NOTES	0			0		
							GROUP D STORAGE TANKS ARE SIX 850,000 GALLON TANKS	THE TANKS ARE REQUIRED TO BE UNDER PRESSURE									-
AZ-0046	ARIZONA CLEAN FUELS YUMA	4/14/2005	GROUP D STORAGE TANKS				STORING LIQUIFIED PETROLEUM GAS, BUTANE/BUTYLENE, OR OTHER PETROLEUM LIQUIDS.	SO THAT NO EMISSIONS ARE EMITTED TO THE ATMOSPHERE.	0		SEE POLLUTANT NOTES	0			0		
								FIXED ROOF TANK WITH INTERNAL FLOATING ROOF. HEAD SPACE ROUTED TO A CARBON ADSORPTION									
AZ-0046	ARIZONA CLEAN FUELS YUMA	4/14/2005	SOUR WATER TANK				EQUIPMENT IDENTIFIED BY ID # T-11100	SYSTEM.	0		SEE NOTE	0			0		
							THIS GROUP OF TANKS INCLUDES 47 DIFFERENT TANKS RANGING IN SIZE FROM 378,000 GALLONS CAPACITY TO	INTERNAL FLOATING ROOFS WITH HEADSPACE									
AZ-0046	ARIZONA CLEAN FUELS YUMA	4/14/2005	GROUP B STORAGE TANKS				7,560,000 GALLONS CAPACITY.	ROUTED TO THE TANK FARM THERMAL OXIDIZER.	0		SEE NOTE	0			0		
			Recovered oil storage tank,				This BACT determination is achieved in practice since the South Coast has a rule 1178, which requires domes on external floating roof tanks storing										
CA-1180	CHEVRON BRODUCTS CO.	0/24/2011	external floating roof with				materials with greater than or equal to 3.0 psia and greater than 19,815	B - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			SEE NOTES						
CA-1180	CHEVRON PRODUCTS CO	8/24/2011	TWO NOMINAL 3.5		0		gallons.	Requires domes on external floating roof tanks.	0		SEE NOTES	0			0		
l			MILLION GALLON DISTILLATE FUEL OIL														
FL-0285	PROGRESS BARTOW POWER PLANT	1/26/2007	STORAGE TANKS	FUEL OIL					0		SEE NOTE	0			0		
			TWO NOMINAL 6.3 MILLION GALLON														
l	FPL WEST COUNTY ENERGY		DISTILLATE FUEL OIL	DISTILLATE FUEL													
FL-0286	CENTER ENI - HOLY CROSS DRILLING	1/10/2007	STORAGE TANKS	OIL			CAPACITY: 6.3 MILLION GALLON	Use of good maintenance practices based on the current	0		SEE NOTE 12-MONTH	0			0		
*FL-0328	PROJECT	10/27/2011	Storage Tanks	Diesel	0		Various diesel storage tanks ranging from 50 gal to 610,000 gal.	manufactureraems specifications for each tank The Department sets BACT for these storage tanks to	0.27	T/YR	ROLLING	0			0		
l								minimize VOC emissions as the use of pressure relief									
l								valves/vapor condensers. In lieu of pressure relief valves/vapor condensers, FPL as an alternative, can use tanks									
l			Three ULSD fuel oil storage					with internal floating roofs or the equivalent to minimize VOC									
*FL-0346	LAUDERDALE PLANT	4/22/2014	tanks		0		Three tanks: 80000 bbl, 150000 bbl, and 75000 bbl	emissions.	0			0			0		
l	ANADARKO PETROLEUM							Use of good maintenance practices to minimize fugitive emissions, including minimizing the release of emissions from			PER YEAR ON A 12 MONTH						
*FL-0347	CORPORATION - EGOM	9/16/2014	Storage Tanks	Diesel	0			emissions, including minimizing the release of emissions from valves, pump seals, and connectors.	0.71	T/YR	ROLLING TOTAL	0			0		
								Use of good maintenance practices to minimize fugitive			PER YEAR ON A						
l	ANADARKO PETROLEUM							emissions, including minimizing the release of emissions from			12-MONTH						
*FL-0347	CORPORATION - EGOM	9/16/2014	Condensate Tank		0			valves, pump seals, and connectors.	9.26	T/YR	ROLLING TOTAL	0			0		
IA-0084	ADM POLYMERS	11/30/2006	LAIDIG TANKS		,		THERE ARE THREE (3) IDENTICAL TANKS. EACH IS ALSO RATED AT 1,200 CUBIC FEET.		00	T/YR	365 DAY ROLLING TOTAL	3500	PPMD	30 DAY ROLLING AVERAGE			
			ANTIFOAM STORAGE		3	I/H	AT 1,200 COBIC PEET.		80		ROLLING 12	3300	PPMD	AVERAGE	0		
IA-0084	ADM POLYMERS	11/30/2006	TANK		13000	GAL			0.01	T/YR	MONTH TOTAL ROLLING 12	0			0		
IA-0084	ADM POLYMERS	11/30/2006	BDO STORAGE TANK		86000	GAL			0.01	T/YR	MONTH TOTAL	0			0		
							THERE ARE 5 IDENTICAL BROTH HOLDING TANKS IN THIS				AVERAGE OF THREE (3) 1-HR						
IA-0084	ADM POLYMERS	11/30/2006	BROTH HOLDING TANKS		145000	GAL	PROJECT. ADM IS INSTALLING 4 - TWO MILLION GALLON EACH		0.02	LB/H	TEST RUNS	0			0		
l	ADM CORN PROCESSING - CEDAR		DENATURED ETHANOL				DENATURED ETHANOL STORAGE TANKS. PERMITS 07-A-538-P,				12-MONTH						
IA-0088	RAPIDS	6/29/2007	STORAGE TANK		2000000	GALLON STORAGE	07-A-564-P, 07-A-565-P AND 07-A-566-P.	INTERNAL FLOATING ROOF	1.26	T/YR	ROLLING TOTAL	0			0		
l			WASTEWATER														
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	TREATMENT PLANT (WWTP) AERATION TANK		1500000	GALLON STORAGE	PERMIT 07-A-539-P		20	PPMVD	AVERAGE OF 3 TEST RUNS	0			0		
							THE PROJECT INCLUDES THREE IDENTICAL 500,000 GALLON 200										
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	ALCOHOL DAY TANK (200 PROOF)		500000	GALLON STORAGE	PROOF ALCOHOL STORAGE TANKS. PERMITS 07-A-560-P, 07-A- 561-P AND 07-A-581-P.	INTERNAL FLOATING ROOF	1.14	T/YR	12-MONTH ROLLING TOTAL	0			0		
	ADM CORN PROCESSING - CEDAR		ALCOHOL QUALITY				PERMIT 07-A-562-P. TANK IS USED TO ENSURE THAT				12-MONTH						
IA-0088	RAPIDS	6/29/2007	CONTROL TANK		500000	GALLON STORAGE	DENATURED ETHANOL MEETS PRODUCT SPECIFICATIONS.	INTERNAL FLOATING ROOF	1.22	T/YR	ROLLING TOTAL	0			0		
	ADM CORN PROCESSING - CEDAR						PERMIT 07-A-563-P. TANK IS USED TO REMIX DENATURED ETHANOL TO CORRECT SPECIFICATIONS IF DETECTED AS OUT				12-MONTH						
IA-0088	RAPIDS	6/29/2007	ALCOHOL RECLAIM TANK		500000	GALLON STORAGE	OF SPEC IN THE QUALITY CONTROL TANK.	INTERNAL FLOATING ROOF	1.22	T/YR	ROLLING TOTAL	0			0		
I	ADM CORN PROCESSING - CEDAR	_	DENATURANT STORAGE		I						12-MONTH					7	7
IA-0088	RAPIDS	6/29/2007	TANK		500000	GALLON STORAGE	PERMIT 07-A-567-P.	INTERNAL FLOATING ROOF	0.51	T/YR	ROLLING TOTAL	0			0		
l	ADM CORN PROCESSING - CEDAR	1	CORROSION INHIBITOR								12-MONTH						
IA-0088	RAPIDS	6/29/2007	STORAGE TANK		8500	GALLON STORAGE	PERMIT 07-A-568-P PERMIT 07-A-569-P. TANK HOLDS 190 PROOF ALCOHOL PRIOR		0.85	T/YR	ROLLING TOTAL	0	1		0		
l	ADM CORN PROCESSING - CEDAR	1					TO ALCOHOL GOING THROUGH DISTILLATION AND				12-MONTH						
IA-0088	RAPIDS	6/29/2007	190 PROOF TANK DENATURED ETHANOL	-	100000	GALLON STORAGE	DEHYDRATION.	INTERNAL FLOATING ROOF	3.18	T/YR	ROLLING TOTAL	0	-		0		
l		1	STORAGE TANK, T61 AND										1				
IA-0089	HOMELAND ENERGY SOLUTIONS, LLC, PN 06-672	8/8/2007	T62 (07-A-972P AND 07-A- 973P)		1500000	GAL.	THERE ARE TWO TANKS FOR THE DENATURED ETHANOL STORAGE TANK. THE PERMITS ARE 07-A-972P AND 07-A-973P.	INTERNAL FLOATING ROOF	0.36	T/YR	BACT	0	1		0		
	HOMELAND ENERGY SOLUTIONS.		200 PROOF ANYHDROUS														$\overline{}$
IA-0089	LLC. PN 06-672	8/8/2007	ETHANOL STORAGE TANK, T63 (07-A-974P)		200000	GAL	STORES ANHYDROUS ETHANOL.	INTERNAL FLOATING ROOF	0.61	T/YR	BACT	0	<u></u>		0		
IA-0089	HOMELAND ENERGY SOLUTIONS, LLC, PN 06-672	8/8/2007	DENATURANT STORAGE TANK, T64 (07-A-975P)		200000	GAL		INTERNAL FLOATING ROOF	1 49	T/YR	BACT	0			0		
20009		a d 2007	190-PROOF ETHANOL		20000	Caral.		ECLERICAL PLOYATING ROOF	1.47	1/1K	D-0C1		1		~		
IA-0089	HOMELAND ENERGY SOLUTIONS, LLC, PN 06-672	8/8/2007	STORAGE TANK, T65 (07-A- 976P)		200000	GAL		INTERNAL FLOATING ROOF	0.61	T/YR		0	1		0		
			ADDITIVE (CORROSION									-					
IA-0089	HOMELAND ENERGY SOLUTIONS, LLC, PN 06-672	8/8/2007	INHIBITOR) TANK, T66 (07- A-977P)		2300	GAL			0.05	T/YR	BACT	0	1		0		
IA-0092	SOUTHWEST IOWA RENEWABLE ENERGY	4/19/2007	ETHANOL STORAGE TANKS		1500000	GAL		DETERMINE PLOATING BOOK			SEE NOTE						
1/4-0092		4/19/2007	IANAS	<u> </u>	1500000	UAL		INTERNAL FLOATING ROOF	U	1		U	 		U		
IA-0095	TATE & LYLE INDGREDIENTS AMERICAS, INC.	9/19/2008	ALCOHOL QC TANK				200 PROOF ETHANOL	INTERNAL FLOATING ROOF	0.28	T/YR	12-MONTH ROLLING TOTAL	0			0		
DV-0093	romanc/Id, EVC.	A 1 A 2008	PARCOHOL OC DANK			L	200 I ROOF ETIMENOE	INTERCOL LOSTING ROOF	0.23	I K	NOLLEW TOTAL		1	1	la.		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
	TATE & LYLE INDGREDIENTS		CORROSION INHIBITOR								12-MONTH						
IA-0095	AMERICAS, INC. TATE & LYLE INDGREDIENTS	9/19/2008	TANK ETHANOL STORAGE					CARBON FILTRATION SYSTEM	0.062	T/YR	ROLLING TOTAL	0			0		
IA-0095	AMERICAS, INC. TATE & LYLE INDGREDIENTS	9/19/2008	TANKS (2)				2 STORAGE TANKS, 2 MMGAL EACH,	INTERNAL FLOATING ROOF	0			0			0		
IA-0095	AMERICAS, INC.	9/19/2008	GASOLINE STORAGE TANK				250,000 GALLONS	INTERNAL FLOATING ROOF	0		ROLLING	0			0		
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	7/12/2013	Diesel Belly Tanks		45000	gal/yr	There are two (2) identical storage tanks		0.1	T/YR	TWELVE (12) MONTH TOTAL	0			0	.	
	CF INDUSTRIES NITROGEN, LLC -		Methyl-diethanol Amine								ROLLING TWELVE (12)						
*IA-0106	PORT NEAL NITROGEN COMPLEX	7/12/2013	(MDEA) Storage Tank		220000	gallons		Nitrogen Gas Blanket	0.1	T/YR	MONTH TOTAL AVERAGE OF	0			0	$\overline{}$	
	CF INDUSTRIES NITROGEN, LLC -										THREE (3) STACK TEST					.	
*IA-0106	PORT NEAL NITROGEN COMPLEX	7/12/2013	Urea Uf-85 Storage Tank TURBINE LUBE OIL		79250	gallons		packed bed scrubber GOOD COMBUSTION PRACTICE AND FUEL	0.046	LB/H	RUNS	0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	STORAGE TANKS		6800	GALLONS EACH	THESE SIX (6) STORAGE TANKS ARE IDENTIFIED AS TK01-TK06	SPECIFICATION	0			0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY GENERATOR ULSD TANKS FIRE PUMP ENGINE ULSD		550	GALLONS EACH	THE TWO (2) TANKS ARE IDENTIFIED AS TK07 AND TK08	GOOD DESIGN AND OPERATING PRACTICES	0			0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC		TANKS		70	GALLONS EACH	THE TWO (2) TANKS ARE IDENTIFIED AS TK09 AND TK10	GOOD CUMBUSTION PRACTICE AND FUEL SPECIFICATION	0			0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	VEHICLE GASOLINE DISPENSING TANK		650	GALLONS	TANK, IDENTIFIED AS TK11, IS EQUIPPED WITH SUBMERGED FILL AND STAGE 1 VAPOR BALANCE.	SUBMERGED FILL PIPES AND STAGE 1 VAPOR CONTROL	0			0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	VEHICLE DIESEL TANK EMERGENCY GENERATOR		650	GALLONS	THIS TANK IS IDENTIFIED AS TK12	GOOD CUMBUSTION PRACTICE AND FUEL SPECIFICATION GOOD CUMBUSTION PRACTICE AND FUEL	0			0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	ULSD TANK		300	GALLONS	THIS TANK IS IDENTIFIED AS TK50	SPECIFICATION PRACTICE AND FUEL	0			0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	TWO (2) UAN STORAGE TANKS THREE (3) UAN DAY		30000	TONS UAN, EACH		WHITE TANK SHELLS, USE SUBMERGED FILL.	0			0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	TANKS		750	TONS UAN, EACH		WHITE TANK SHELLS, SUBMERGED FILL	0			0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	ONE (1) DIESEL EXHAUST FLUID (DEF) TANK		100	TONS UAN		WHITE TANK SHELL, SUBMERGED FILL	0	I D		0			0		
*** 0170	OUTO VALLEY BECOME TO 110	0/25/2012	TWO (2) NITRIC ACID STORAGE TANKS		806842	TONS OF 57% ACID PER YEAR.	PERMIT LIMITS NITRIC ACID THROUGHPUT TO 806,842 TONS OF 57% ACID PER YEAR	SUBMERGED FILL	0.0015	NOX/TON 57% ACID	3-HR AVERAGE					.	
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	1,286,714 GAL HEAVY FUEL OIL STORAGE TANKS		800842	PER TEAR.	VERTICAL FIXED ROOF TANKS.	SUBMERGED FILL	0.0013	37% ACID	ANNUAL MAXIMUM, SEE	U			,		
LA-0182	ST. ROSE TERMINAL	2/16/2005	(2)				MAXIMUM TRUE VAPOR PRESSURE <= 0.07 PSIA. VERTICAL FIXED ROOF TANKS.		71.96	T/YR	NOTE ANNUAL	0			0		
LA-0182	ST. ROSE TERMINAL	2/16/2005	3,383,615 HEAVY FUEL OIL STORAGE TANKS (2)				MAXIMUM TRUE VAPOR PRESSURE <- 0.07 PSIA.		71 96	T/YR	MAXIMUM, SEE NOTE	0				.	
LA-0182	SI. ROSE TERMINAL		2,541,471 GAL HEAVY FUEL OIL STORAGE TANKS				VERTICAL FIXED ROOF TANKS.		/1.90	171K	ANNUAL MAXIMUM SEE				,		
LA-0182	ST. ROSE TERMINAL	2/16/2005	(2) 4 2 19 180 GAL HEAVY				MAXIMUM TRUE VAPOR PRESSURE <- 0.07 PSIA. VERTICAL FIXED ROOF TANKS.		71.9	T/YR	NOTE ANNUAL	0			0	\longrightarrow	
LA-0182	ST. ROSE TERMINAL		FUEL OIL STORAGE TANKS				MAXIMUM TRUE VAPOR PRESSURE <= 0.07 PSIA.		71.0	T/YR	MAXIMUM, SEE NOTE	0				.	
LA-0203	OAKDALE OSB PLANT	6/13/2005	10.000 GAL DIESEL TANK				WAXIMUM TRUE VAPOR PRESSURE ~= 0.07 FSIA.	SUBMERGED FILL PIPE	0.001	LB/H	HOURLY MAXIMUM	0			0		
LA-0203	OAKDALE OSB PLANT	6/13/2005	5000 GAL GASOLINE TANKS (2)					SUBMERGED FILL PIPE	0.15	LB/H	HOURLY MAXIMUM	0			0		
250205	OND TENT	0.13/2003	EXTERNAL FLOATING				INCLUDES EPNS 15-74, 18-74 - 25-74, 29-74 - 35-74, 63-74 - 65-74, 68- 74, 71-74, 77-74 - 80-74, 90-74, 93-80 - 96-80, 3-05, 36-08 - 44-08, & 57-	EXTERNAL FLOATING ROOFS; COMPLY WITH 40 CFR	0.15	Librii	III CUNCIN						
LA-0211	GARYVILLE REFINERY	12/27/2006	ROOF STORAGE TANKS FIXED ROOF STORAGE				08. INCLUDES EPNS 27-74, 28-74, 36-74 - 45-74, 66-74, 67-74, 73-74 - 76-	63 SUBPART CC	0		SEE NOTE	0			0		
LA-0211	GARYVILLE REFINERY		TANKS INTERNAL FLOATING				74, 97-80 - 99-80, 120-91, 34-08, & 35-08.	COMPLY WITH 40 CFR 63 SUBPART CC INTERNAL FLOATING ROOFS: COMPLY WITH 40 CFR	0		SEE NOTE	0			0		
LA-0211	GARYVILLE REFINERY	12/27/2006	ROOF STORAGE TANKS				INCLUDES EPNS 16-74, 17-74, & 47-08.	63 SUBPART CC	0		SEE NOTE	0			0		
LA-0212	ZACHARY STATION	2/1/2007	GASOLINE/DISTILLATES TANKS (T-1 & amp; T-14)		423	MM GALS/YR		INTERNAL FLOATING ROOFS	3.16	LB/H	HOURLY MAXIMUM	0				.	
			6.61 MM GAL GASOLINE/DISTILLATES								HOURLY						
LA-0212	ZACHARY STATION	2/1/2007	TANK (T-4) 6.61 MM GAL		238	MM GALS/YR		INTERNAL FLOATING ROOF	2.17	LB/H	MAXIMUM	0			0		
LA-0212	ZACHARY STATION	2/1/2007	GASOLINE/DISTILLATES TANK (T-9)		238	MM GALS/YR		INTERNAL FLOATING ROOF	2.11	LB/H	HOURLY MAXIMUM	0				.	
LA-0212	ZACHARY STATION	2/1/2007	394,813 GAL TRANSMIX TANK (T-13)		14.21	MM GALS/YR		INTERNAL FLOATING ROOF	0.66	LB/H	HOURLY MAXIMUM	0			0		
			TANKS - FOR BENZENE, XYLENE, SULFOLANE,					EQUIPPED WITH INTERNAL FLOATING ROOFS									
LA-0213	ST. CHARLES REFINERY	11/17/2009	PAREX, INTERMEDIATE TANKS - FOR HEAVY				16 IFR TANKS	FOLLOWED BY THERMAL OXIDIZERS EQUIPPED WITH FIXED ROOF AND COMPLY WITH 40	0		SEE NOTE	0			0	\longrightarrow	
LA-0213	ST. CHARLES REFINERY		MATERIALS TANKS - FOR SPENT				39 FIXED ROOF TANKS	CFR 63 SUBPART CC FIXED ROOF AND SUBMERGED FILL LINES (LAC	0		SEE NOTE	0			0	-	
LA-0213	ST. CHARLES REFINERY	11/17/2009	CAUSTIC TANKS - FOR LIGHT				2 FIXED ROOF TANKS	33:III.2103)	0		SEE NOTE	0			0	\rightarrow	
			MATERIALS, SOUR WATER, NAPHTHA,					EQUIP WITH FLOATING ROOFS (IFR OR EFR) & COMPLY WITH 40 CFR 60 SUBPART KB OR 40 CFR 63								,	
LA-0213	ST. CHARLES REFINERY	11/17/2009	RAFFINATE EQT026-EQT030 FIVE				38 TANKS	SUBPART CC	0		SEE NOTE 12	0			0		
LA-0228	BATON ROUGE JUNCTION FACILITY	11/2/2009	GASOLINE TANKS (T001- T005)		240000	BBL (EACH)		INTERNAL FLOATING ROOFS AND SUBMERGED FILL PIPES	59.7	T/YR	CONSECUTIVE MONTH TOTAL	0			0		
			EQT031-EQT035 FIVE DISTILLATE TANKS (T006-					SUBMERGED FILL PIPES AND PRESSURE/VACUUM			12 CONSECUTIVE	_				, 7	
LA-0228	BATON ROUGE JUNCTION FACILITY	11/2/2009	T010)		240000	BBL (EACH)		VENTS LIMIT TANK CLEANING TO 2 TIMES PER ANY 12	45	T/YR	MONTH TOTAL	U			0		
			FUG003 TANK CLEANING					CONSECUTIVE MONTH PERIOD. MINIMIZE THE TIME BEFORE REMOVING LIQUID HEELS AND SLUDGE			12 CONSECUTIVE					,	
LA-0228	BATON ROUGE JUNCTION FACILITY STERLINGTON COMPRESSOR		(TC01) CONDENSATE STORAGE		\$740			FROM THE TANK BOTTOM	16.07	T/YR	MONTH TOTAL HOURLY	0		ANNUAL	0		
LA-0232	STATION	6/24/2008	TANK HEAVY FUEL OIL		5/60	BBL/YR	100 BBL VOLUME	SUBMERGED FILL PIPE	1.28	LB/H	MAXIMUM (CAP FOR 18	5.62	T/YR	MAXIMUM	0		
LA-0237	ST. ROSE TERMINAL	5/20/2010	STORAGE TANKS (18) FR Storage Tanks EQT0087		0		VOLUME = 4.22 MILLION GALLONS EACH EQT0087 (95-52, 150-22) = 150,000 bbls	FIXED ROOF	67.53	T/YR	TANKS)	0			0		
LA-0265 LA-0265	ST. CHARLES REFINERY ST. CHARLES REFINERY	10/2/2012 10/2/2012	and EQT0088 EFR Storage Tank EQT0169		0		EQT0088 (94-53, 150-23) = 150,000 bbls 98-75, 150-1 = 180,000 bbls	Comply with 40 CFR 63 Subpart CC (Group 2) Comply with 40 CFR 60 Subpart Kb using an EFR	0			0			0		
*LA-0272	AMMONIA PRODUCTION FACILITY	3/27/2013	AMDEA STORAGE TANK (2009-F)		0		395,000 GALLONS		0			0			0		
		8/20/2008	Heated Residual Oil Storage Tanks		0		Residual oil storage tanks emission collection system is designed to capture 95% of vapor laden air from tank vent system.	Regenerative Thermal Oxidizer with 99% destruction efficiency	7.7	T/YR	MONTH	15.4	TONS	12 MONTH ROLLING	0		
*MA-0040	CHELSEA TERMINAL	8/20/2008	Tunks														
*MA-0040	CHELSEA TERMINAL	8/20/2008	1,470,000-gallon crude methanol tank with fixed roof													1	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE		PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
			Two 2,940,000-gallon methanol day tanks with														1
*MS-0092	EMBERCLEAR GTL MS	5/8/2014	internal floating roofs Four 8,400,000-gallon MTG		0			Internal floating roof, white or aluminum surface	0			0			0		-
*MS-0092	EMBERCLEAR GTL MS	5/8/2014	product gasoline tanks with internal floating roofs		0			internal floating roof, white or aluminum surface	0			0			0		1
			Two 630,000-gallon MTG gasoline day tanks with					-									
*MS-0092	EMBERCLEAR GTL MS	5/8/2014	internal floating roofs One 714,000-gallon MTG		0			internal floating roof, white or aluminum surface	0			0			0		
			heavy gasoline day tank with														1
*MS-0092	EMBERCLEAR GTL MS	5/8/2014	internal floating roof		0		The throughput of 2,072,718.0 MGAL/YR is for 26 tanks.	internal floating roof, white or aluminum surface	0			0			0		
							The tanks have welded steel internal floating roofs with a double seal configuration that comply with the requirements of New Jersey Enhanced										1
			26 Internal floating roof				VOC RACT rules (N.J.A.C. 7:27-16). The welded steel roofs are designed to eliminate deck seam losses and VOC emissions from roof landing and										1
*NJ-0083	COLONIAL PIPELINE CO LINDEN JCT TANK FARM	3/11/2014	storage tanks for materials with RVP <= 15	Material with RVP <=	2072718	MGAL/YR	cleaning operations are vented to a vapor combustion unit (95% VOC control).	Vapor combustion unit for cleaning & roof landings	0			0			0		1
NM-0050	ARTESIA REFINERY	12/14/2007	STORAGE TANKS	NAPTHA	100000	BBI	NAPTHA STORAGE TANK	EXTERNAL FLOATING ROOF TANK EQUIPPED WITH DOUBLE SEALS			SEE NOTE						
				NAT IIIA	20000	BBI	INT THE STORAGE PARK	EXTERNAL FLOATING ROOF EQUIPPED WITH	-		SEE NOTE						
NM-0050	ARTESIA REFINERY	12/14/2007	SOUR WATER TANK		20000	BBL		DOUBLE SEALS	0		SEE NOTE	0			0		
NV-0047	NELLIS AIR FORCE BASE	2/26/2008	FUEL TANKS/LOADING RACKS/FUEL DISPENSING	GASOLINE	500000	Gal∕mo.	THE FACILITY HAS: (1) 3 ABOYE-GROUND AND 2 LADERGROUND GASOLINE TANKS: (2) 13 LOADING FACKS, ONE EACH FOR JP-8, GASOLINE, AND DESCEI, (3) 10 NEW FUEL DEPENBANG STATIONS APPROVED IN THIS PERMITTING ACTION: (4) ONE EXISTING GASOLINE DEPENBANG STATION WITH 9 NOZZIES, (5) 73 ABOVE-GROUND STORAGE TANKS FOR DIESEL OR, JP-8, (6) 13 UNDEE-GROUND STORAGE TANKS FOR DIESEL OR, JP-8, THE GASOLINE STATION CONSISTING OF UNITS JRD-304 (9 NOZZIES) FOR GASOLINE DISPENSING IS SELECTED TO SHOW THE BACT DEPERMANTANO.	STAGE 1 AND STAGE 2 VAPOR RECOVERY SYSTEMS AND LIMIT OF REID VAPOR PRESSURE TO 10 PSI	0.0033	LB/GAL		1650	LB/MO		0.0033	LB/GAL	
							EIGHT FUEL TANKS, 3 MM GALLONS EACH TANK. OUTSIDE TANKS. WHITE SHELL. 40 FEET HIGH, 115 FOOT DIAMETER. PRESSURE SETTING 0.03; VACUUM SETTING 0.03. SUBMERGED FILL 95.812.500 GALLON PER YEAR MAXIMUM				PER ROLLING 12- MONTH PERIOD,						
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	FIXED ROOF TANKS (8)	DIESEL FUEL OIL	262500	GAL/D	ANNUAL THROUGHPUT FOR EACH.	SUBMERGED FILL	0.8	T/YR	FOR EACH	0			0		
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	INTERNAL FLOATING ROOF TANKS (4)	NAPHTHA	262500	GAL/D	FOUR FUEL TANKS, 3 MM GALLONS EACH TANK. OUTSIDE TANKS. WHITE SHELL. 40 FEET HIGH, 115 FOOT DIAMETER. PRESSURE AND VACUUM SETTING TO BE DETERMINED. SUBMERGED FILL. 95.812,500 GALLON PER YEAR MAXIMUM ANNUAL THROUGHPUT FOR EACH.	FLOATING ROOF AND SUBMERGED FILL	0.00	T/YR	PER ROLLING 12- MONTH PERIOD, FOR EACH						
OK-0139	CUSHING TERMINAL CRUDE OIL STORAGE FACILITY	10/25/2010	Crude Oil Storage in External	NA	570000	Barrels	ANNOAL HIROCORPOT FOR EACH.	No controls feasible; external floating roof tanks.	437.35	T/YR	YEAR / FACILITY WIDE CAP	0			0		
		3/5/2014	Floating Roof Tanks	ULSD	370000	Batters		Submerged fill line:	437.33	171K	WIDE CAF						
*OR-0050	TROUTDALE ENERGY CENTER, LLC	3/5/2014	Storage tank	ULSD	0		2.2 million gallons, fixed roof, ULSD (vapor pressure 0.0055 psia)	Vapor balancing during tank filling. THE FIXED ROOF TANKS ARE CONSIDERED BACT	0			0			0		
TX-0464	CONTINENTAL CARBON SUNRAY PLANT	3/18/2005	SMALL STORAGE TANK				THE FIXED ROOF TANKS ARE CONSIDERED BACT DUE TO THE LOW VAPOR PRESSURE OF THE FEEDSTOCK OIL.	DUE TO THE LOW VAPOR PRESSURE OF THE FEEDSTOCK OIL.	0.01	LB/H		0.01	T/YR		0		
	CONTINENTAL CARBON SUNRAY						THE FIXED ROOF TANKS ARE CONSIDERED BACT DUE TO THE	THE FIXED ROOF TANKS ARE CONSIDERED BACT DUE TO THE LOW VAPOR PRESSURE OF THE									1
TX-0464	PLANT CITGO CORPUS CHRISTI REFINERY -	3/18/2005	LARGE STORAGE TANK STORAGE TANK				LOW VAPOR PRESSURE OF THE FEEDSTOCK OIL.	FEEDSTOCK OIL.	0.01	LB/H		0.01	T/YR		0		-
TX-0478	WEST PLANT CITGO CORPUS CHRISTI REFINERY -	4/20/2005	13A&B STORAGE TANKS 6020-						1.6	LB/H		3.9	T/YR		0		
TX-0478	WEST PLANT	4/20/2005	6023 STORAGE TANKS 6011-						4.4	LB/H		3.3	T/YR		0		
TX-0478	WEST PLANT	4/20/2005	6012						0.8	LB/H		1.4	T/YR		0		
TX-0478	CITGO CORPUS CHRISTI REFINERY - WEST PLANT	4/20/2005	SOUR WATER TANK						17.9	LB/H		2	T/YR		0		1
TX-0487	ROHM AND HAAS CHEMICALS LLC LONE STAR PLANT INEOS CHOCOLATE BAYOU	3/24/2005	ALCOHOL TANK (3)				THESE STORAGE TANES, ARE CURERATLY OPERATING UNDER VERY PERMIT NO. 4992 WHICH IS BEING ROLLED INTO FERMIT NO. 229928M. THEY ALL ARE FINED ROOF TANKS, LESS THAN 2200 WHITE ALL ARE FINED ROOF TANKS, LESS THAN 2400 THEN THE TANKS AND THE TANKS AND THE TANKS AND THE TANKS AND THE TANKS AND THE TANKS AND THE TANKS AND THE TANKS AND THE TANKS AND THE THE CURRENT BACT. EMISSIONS ARE PER TANKS.		0.01	LB/H		0.01	T/YR		0		
TX-0496	FACILITY	8/29/2006	TANK CAP						11.06	LB/H		45.18	T/YR		0		
TX-0537	LBC HOUSTON BAYPORT TERMINAL	10/26/2009	TWO NEW STORAGE				AUTHORIZE EMISSIONS FROM 2 NEW INTERNAL FLOATING ROOF TANKS, INCLUDE ROUTINE & PLANNED MSS (e.G., TANK ROOF LANDINGS - STANDRO IDLE REFILL DEGAS)	IFR CONFIGURATION FOR ROUTINE EMISSIONS @ EACH OF 2 NEW TKS (LIMIT 1) FLARES/ICE FOR REFEIL&DEGAS (LIMIT 2); OVERALL PERMIT LIMIT IS 19.74TPY FOR AFFECTED FLARES; LIMIT 2 ATTRIBUTABLE TO 2 NEW TANKS	1 02	T/YR		442	T/YR		0		
	LBC HOUSTON BAYPORT		TWO NEW STORAGE				AUTHORIZE EMISSIONS FROM 2 NEW INTERNAL FLOATING ROOF TANKS. INCLUDE ROUTING & PLANNED MSS (F.G., TANK	IFR CONFIGURATION FOR ROUTINE EMISSIONS @ EACH OF 2 NEW TKS (LIMIT 1) FLARES/CE FOR REFILL&DEGAS (LIMIT 2); OVERALL PERMIT LIMIT IS 19 741TBY FOR AFFECTED FLARES.									
TX-0538	TERMINAL	10/26/2009	TANKS				ROOF LANDINGS - STANDING IDLE, REFILL, DEGAS)	LIMIT 2 ATTRIBUTABLE TO 2 NEW TANKS Land mod <24 hr without control, drain and degas to control until no standing liquid in the tank is left and VOC oncentration less than 10,000 ppm, vent to control when refilling landed tank until tank roof floating again to minimize	1.83	T/YR		6.62	T/YR		0		
TX-0592 TX-0592	CORPUS CHRISTI WEST REFINERY CORPUS CHRISTI WEST REFINERY		Tanks Temporary Tanks		0	-	Land tank roofs and degas for preparation for maintenance. Frac Tanks used to support MSS	impacts Submerged filled, white tanks <25,000 gallon capacity	1027	LB/H LB/H		13.3	T/YR T/YR		0		
							a common manual and engagement offender	Land roof and keep it landed no more than 24 hrs without control, drain and degas to control until no standing liquid remains in the tank and the VOC-10,0000 ppmv in the vent stream. During refilling, went to control until tank roof is	T. C.	modified.							
TX-0595	CORPUS CHRISTI EAST REFINERY	8/19/2010	Tanks		0		Land tank roofs and degas in preparation for maintenance.	floating to minimize impacts.	1482	LB/H		12.7	T/YR		0		
TX-0595	CORPUS CHRISTI EAST REFINERY	8/19/2010	Temporary Tanks		0		Frac Tanks used to support MSS activities	Submerge filled white tanks with<25,000 gallon capacity	64	LB/H		1.7	T/YR		0		
TX-0613	EAST HOUSTON TERMINAL	4/23/2012	Storage Tanks		0		Tanks store various liquids and range in size from 1.68 to 14.7 million gal	Internal floating roof with welded seams, mechanical shoe primary seal and rim mounted secondary seal	9	LB/H		8	T/YR		0		
TX-0613	EAST HOUSTON TERMINAL	4/23/2012	Storage Tanks-MSS		0		MSS requirements apply when floating roof is landed	Vapor space must be routed to control at all times if liquid vapor pressure>0.1 psia. Roof cannot stay landed for more than 3 days. Control may be relaxed if all liquid is removed (drain dry tanks) and VOC concentration 5000 ppmv or less.	30	LB/H		2.8	T/YR		0		

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
								28LAER Leak Detection and Repair (LDAR) program. All components monitored quarterly with 500 ppmv leak									
TX-0613	EAST HOUSTON TERMINAL	4/23/2012	Storage Tank Terminal					definition. Weekly visual check on components in heavy liquid service	0.16	LB/H		0.69	T/YR				
1X-0613	EAST HOUSTON TERMINAL	4/23/2012	Piping/Components Fugitives		0			Vent vapors to control if vapor pressure>0.5 psia and maintain	0.16	LB/II		0.08	I/TK		0		
TX-0613	EAST HOUSTON TERMINAL	4/23/2012	Storage Tank Terminal Piping/Components		0			control until VOC concentration less than 5000 ppmv is	118	I.R/H		2 59	T/YR		0		
134-0015	LIDI HOUSTON ILIAMIOLE	W.E.J. 2012	I may component					Welded decks, mechanical shoe primary and rim-mounted		LUI		2.07					
			Petroleum Liquid Storage in				Facility will install four 100,000 bbl internal floating roof tanks and six	secondary seal for stock with VP>0.10 psia. Control is required during loading of marine vessels and during roof			ROLLING 12 MONTHS						
*TX-0637	GALENA PARK TERMINAL	10/15/2013	loating Roof Tanks	not applicable	1300000	bbl	150,000 bbl domed external floating roof tanks to store petroleum liquids	landings for VP>0.10 psia. For storage of VOC in floating roof tanks, the tanks will have	14.37	T/YR	AVERAGE	0			0		
								welded decks, mechanical shoe primary and rim-mounted									
			Petroleum Liquid Marketing; Petroleum Liquid Storage in	natural gas as pilot			Six Condensate tanks are 250,000 bbl capacity. Total throughput for the	secondary seal for VOC with a vapor pressure >0.5 psia. Floating roof tank landings are limited in frequency and			ROLLING 12			ROLLING 12			ROLLING 12
*TX-0653	TEXAS DOCK AND RAIL	2/18/2014	Floating Roof Tanks	fuel for VCU	250	Mbbl	facility is 125 MMbbl/yr	duration.	11.23	T/YR	MONTHS	92.87	TPY	MONTHS	43.92	TPY	MONTHS
							Seven new DEFR storage tanks that each has a 390,000 bbl capacity will										
			390 Mbbl Storage Tanks-				be assigned to ''Tank Group 3. The authorized storage										
*TX-0661	OILTANKING APPELT TERMINAL	6/30/2014	Routine Operations		23.4	MMbbl/year	products are crude (up to and including RVP 7), condensate (up to and including RVP 11), and gasoline (up to and including RVP 11).	Domed External Floating Roof	7.56	LB/H	HOUR	2.19	TON	YEAR	0		
*TX-0661	OILTANKING APPELT TERMINAL	6/30/2014	210 Mbbl Storage Tank- Routine Operations		7.62	MMgal/yr		Domed External Floating Roof	10.29	LB/H	HOUR	1.71	TON	YEAR	0		
							One new DEFR storage tank with a 127,000 bbl capacity will be assigned to Tank Group 3. The authorized storage products are crude (up to and										
			127 Mbbl Storage Tank-				including RVP 7), condensate (up to and including RVP 11), and gasoline										
*TX-0661	OILTANKING APPELT TERMINAL	6/30/2014	Routine Operations		7.62	MMgal/year	(up to and including RVP 11).	Domed External Floating Roof	13.17	LB/H	HOUR	1.43	TON	YEAR	0		
							Controlled MSS emissions include controlled standing idle, filling, and degassing losses. These controlled MSS emissions are routed to a portable										
							vapor combustor (EPN PORTVC), which releases VOC, nitrogen oxides										
							(NOx) and carbon monoxide (CO) to the atmosphere. Uncontrolled MSS emissions are the result of uncontrolled venting (FIN 390-132, EPN 390-										
							132 MSS; FIN 390-133, EPN 390-133 MSS; FIN 390-134, EPN 390-134										
							MSS; FIN 390-136, EPN 390-136 MSS; FIN 390-137, EPN 390-137 MSS; FIN 390-138, EPN 390-138 MSS; FIN 390-139, EPN 390-139										
*TX-0661	OILTANKING APPELT TERMINAL	6/30/2014	Storage tanks å€" MSS				MSS; FIN 210-135, EPN 210-135 MSS; and FIN 127-131, EPN 127-131 MSS) of residual waste vapors in the tanks.	Vapor Combustor				0					
12,0001	OILTANKING AFFELT TERMINAL	0.30/2014	operations		0			Vapoi Conadastoi									
*TX-0663	JACKSON COUNTY GAS PLANT	5/25/2012	Produced Water Tanks		0		13,000 gallons Store produced water with VOC vapor pressure less than 0.5 psia at 95 F	White, submerged fill	0			0.01	TON	YEAR	0		
							9000 gallons Store amine, glycol, slop oil, lube oil or waste oil with pressures less than	, ,									
*TX-0663	JACKSON COUNTY GAS PLANT	5/25/2012	Fixed Roof Tanks		0		0.5 psia at 95 ŰF	White, submerged fill	0			0.01	TON	YEAR	0		
							A combination of IFR tanks, fixed roof tanks and frac tanks wil be used at	Vapor space degassing will be directed to control until VOC level in the tank is less than 5,000 ppmv (2,000 if vented to									
*TX-0682	GALENA PARK TERMINAL	6/12/2013	Storage Tanks		0		the facility	atmosphere).	5000	PPMVD		0			0		
							The new tanks that will be put in service will only store very low vapor pressure(<0.00001psia) VOC liquids and wastewater containing trace										
	ENTERPRISE MONT BELVIEU						amounts of VOC. Fixed roof tanks and low annual throughput are the only means of control due to the negligible quantity of emissions from these										
*TX-0684	COMPLEX	11/14/2012	Tanks		0		tonky	Proper design and operation of tanks	0.76	LB/H		0.1	T/YR		0		
							The tanks are painted white. Loading is done via submerged piping. The volatile organic compound (VOC) vapor pressure of the diesel and lube oil										
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Diesel and lube oil tanks		10708	sullons/vr	stored is below 0.0002 pounds per square inch actual (psia), so a fixed roo	f	0.02	LB/H		0.01	T/YR				
13/0/28		W D 2013			10708	ganous yi	is reasonable.	low vapor pressure fuel, submerged fill, white tank Temperature reduced to maintain volatile organic compound	0.02	LB/II		0.01	1/11				
*TX-0731	CORPUS CHRISTI TERMINAL CONDENSATE SPLITTER	4/10/2015	Petroleum Liquids Storage in Fixed Roof Tanks		3.4	MMBbl/vr/tank	(4) Heated atmospheric residuum (䀜residä€) tanks	(VOC) vapor pressure < 0.5 pounds per square inch actual (psia) at all times.	15.78	T/YR		0			0		
							()	gram, and an arrangement of the control of the cont									
								Required floating roof with welded deck seams if the tank will									
								store products with VOC vapor pressure of 0.5 psia or greater. Proper fitting and seal integrity for the floating roof is ensured									
								through visual inspections and any seal gap measurements specified in 40 CFR § 60.113b.									
								The vapor space under the floating roof must be routed to a control device during standing idle periods until the vapor									
								space VOC concentration is 10,000 ppmv or less. The tank									
	CORPUS CHRISTI TERMINAL		Petroleum Liquids Storage in				(19) internal floating roof tanks for storage of crude oil/condensate, light	roof must be landed on its lowest legs unless tank entry is planned. Refilling must also be controlled if the product									
*TX-0731 *TX-0752	CONDENSATE SPLITTER INGLESIDE TERMINAL	4/10/2015 6/22/2015	Floating Roof Tanks Tank Roof Landings		110	MMBbl/yr/tank M BBl/yr	naphtha, heavy naphtha, jet fuel and distillate. Normal operations and MSS	stored has a VOC vapor pressure of 0.5 psia or greater. vapor combustor	5.09 4.21	T/YR T/YR		0			0		
							110,000,000 barrels per year internal floating roof storage tanks with	rajon companio									
*TX-0752	INGLESIDE TERMINAL	6/22/2015	Storage Tanks		110	M BBl/yr	primary liquid mounted mechanical shoe seal.		81.57	T/YR		U		1	U		
I								Internal floating roof with mechanical shoe primary seal and a rim mounted secondary seal. Deck is welded with gaskets on									
								all deck appurtenances. The tank bottoms shall be drain dry									
								design ae any remaining heel will drain to a sump, which in turn can be emptied. The floating roof shall be equipped with									
*TX-0756	CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY	6/19/2015	Storage Tanks, TK-101, TK- 102, TK-103, TK-104		383000000		Maximum fill/withdrawal rate for each tank is limited to 1,260,000 gal/hr. All tanks each have a volume of 9,240,000 gals.	a connection to a vapor recovery system such that vapors from under a landed roof may be directed to a control device.		LB/H							
*1X-0/56	SPLITTER FACILITY	6/19/2015	102, 1K-103, 1K-104		383000000	gal/yr/tank	All tanks each have a volume of 9,240,000 gals.	· ·	6.44	LB/H		2.62	TPY		0		
I								Internal floating roof with mechanical shoe primary seal and a rim mounted secondary seal. Deck is welded with gaskets on									
I								all deck appurtenances. The tank bottoms shall be drain dry									
I								design act any remaining heel will drain to a sump, which in turn can be emptied. The floating roof shall be equipped with									
*TX-0756	CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY	6/19/2015	Storage Tanks, TK-105, TK-		300000000	gal/vr/tank	Maximum fill/withdrawal rate for each tank is limited to 1,260,000 gal/hr. All tanks each have a volume of 9,240,000 gals.	a connection to a vapor recovery system such that vapors from under a landed roof may be directed to a control device.	2 35	LB/H		3.95	TPY		0		
120-0730						garage course	Sen mere a romane or 7,2-40,000 gais.	Internal floating roof with mechanical shoe primary seal and a				10000		1	1		
								rim mounted secondary seal. Deck is welded with gaskets on						YEAR 0 YEAR 0 YEAR 0 YEAR 0			
I								all deck appurtenances. The tank bottoms shall be drain dry design se [™] any remaining heel will drain to a sump, which in									
							each 744,282,000 gal/yr. Maximum fill/withdrawal rate for each tank is	turn can be emptied. The floating roof shall be equipped with									
ı	CCI CORPUS CHRISTI CONDENSATE	6/19/2015	Storage Tanks 116, TK-117, TK-118, and TK-119		744282000	gal/yr/tank	limited to 1,260,000 gal/hr. All tanks each have a volume of 9,240,000 gals.	a connection to a vapor recovery system such that vapors from under a landed roof may be directed to a control device.	6.38	LB/H		3.48	TONS/YR/T ANK		0		
*TX-0756	SPLITTER FACILITY					, ,	ľ				1			I			
*TX-0756	SPLITTER FACILITY	013/2013															
*TX-0756	SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY	6/19/2015	Storage Tanks, TK-107, TK- 108, TK-109, 42.005		60300	gal/hr	each- 176, 000, 000 gal/yr	Material w/vapor press < 0.5 psia. Tanks are required to be painted white and be equipped with submerged fill pipes	4.2	LB/H		3.26	TONS/YR/T ANK		0		
*TX-0756	SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE	6/19/2015	108, TK-109, 42,005			_	each- 176, 000, 000 gal/yr	painted white and be equipped with submerged fill pipes Tanks are required to be painted white and be equipped with	4.2			3.26	ANK TONS/YR/T		0		
*TX-0756	SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE	6/19/2015 6/19/2015	108, TK-109, 42.005 Storage Tanks, TK-110, TK- 111, TK-112 Storage Tanks, TK-113, TK-		57960	gal/hr	each- 169,000,000 gal/yr	painted white and be equipped with submerged fill pipes Tanks are required to be painted white and be equipped with submerged fill pipes Tanks are required to be painted white and be equipped with	4.2 3.07	LB/H		3.26 2.63	ANK TONS/YR/T ANK TONS/YR/T		0		
*TX-0756	SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY CCI CORPUS CHRISTI CONDENSATE SPLITTER FACILITY	6/19/2015	108, TK-109, 42.005 Storage Tanks, TK-110, TK- 111, TK-112			_		painted white and be equipped with submerged fill pipes Tanks are required to be painted white and be equipped with submerged fill pipes	4.2 3.07 0.85			3.26 2.63 1.15	ANK TONS/YR/T ANK		0		

		PERMIT ISSUANCE							IEMISSION		IAVG TIME	TEMISSION	_	AVG TIME	STANDARAD I		AVG TIME
RRLCID	FACILITY NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNIT	CONDITION	LIMIT 2	UNIT		EMISSION LIMIT		CONDITION
DECID	CCI CORPUS CHRISTI CONDENSATE		I ROCESS TOLIE	TREMART FULL	i inkocom ci	micocom er e.u.	I ROCESS NOTES	Tank is required to be painted white and be equipped with	1.2.411	0.111	CO.IDITIO.	1.1.111 2	0.111	COMMING	E.M.S.HO.Y.E.M.I	0.111	COMBINON
TX-0756	SPLITTER FACILITY	6/19/2015	Spent Caustic Tank, TK-4		35000	gallons/vr		Tank is required to be painted white and be equipped with submerged fill pipes	0.01	LB/H		0.01	TPY				
IA-0/30	SPLITTER FACILITY	0/19/2015	Spent Caustic Tank, TK-4		33000	gaiions/yr		submerged fill pipes	0.01	LB/H		0.01	IPI		0		
	1							External floating roof with mechanical shoe primary seal and a									
	1							rim mounted secondary seal. Deck is welded with gaskets on	1								
	1							all deck appurtenances. The tank bottoms shall be drain dry									
	1							design sen any remaining heel will drain to a sump, which in									
	1							turn can be emptied. The floating roof shall be equipped with									
	CCI CORPUS CHRISTI CONDENSATE		Storage Tanks, TK-120 and TK					a connection to a vapor recovery system such that vapors from					TONS/YR/T				
*TX-0756	SPLITTER FACILITY	6/19/2015	121		1437817500	gal/vr/tank	Both tanks each have a volume of 17.850,000 gals each	under a landed roof may be directed to a control device.	5.43	LB/H		7.33	ANK		0		
						T .	.,,,	1									
	1		Floating Roof Storage Tanks -					Vapor space under the landed floating roof is degassed to a									
	CCI CORPUS CHRISTI CONDENSATE		Controlled Maintenance.					flare meeting the requirements 40CFR60.18 until VOC									
*TX-0756	SPLITTER FACILITY	6/19/2015	Startup and Shutdown (MSS)		5000	scf/hr		concentration is 10,000 ppmy or less.	10000	PPMVD		7.82	TPY		0		
							Storage Throughputs:										
	1						Gasoline/ Denatured Ethanol: 740,000,000 gal/yr										
	1						Distillate Oil/Residual Oil/Lubricating Oil:										
	1						1,180,000,000 gal/yr										
	1						Additives:										
	1						4,000,000 gal/yr										
	1		Storage Tank Breathing,				TransMix:										
	1		Working, and Floating Roof				132,272 gal/yr										
	TRANSMONTAIGNE NORFOLK		Landing Losses (including				Off Spec Product (PCW):	Floating Roof and Seal Systems meeting NSPS Kb, MACT									
VA-0313	TERMINAL	4/22/2010	emergency roof landings)		0		1.985.000 gal/yr	BBBBB requirements for Tanks in Gasoline Service	114.1	T/YR		0			0		
							EXISTING CRUDE OIL STORAGE TANKS. ORIGINAL CAPACITY	,									
	1						OF 150,000 BARREL (BBL) (6,300,000 GALLON) INCREASED TO										
	1						172,000 BBL (7,224,595 GALLONS).										
	1																
	1						INVOLVED REPLACEMENT OF A PORTION OF THE TANK WALL										
	1						WITH A TALLER TANK WALL, AND CONVERTING THE BOTTOM										
	1						OF THE TANK TO A 'CONE DOWN' / DRAIN DRY										
	1						CONFIGURATION. PROJECT IMPROVED UTILIZATION OF THE										
	1						TANK (LARGER TANK ENABLES IT TO BE USED FOR TWO										
	1						BATCHES OF CRUDE OIL). PROJECT ALSO CONSIDERED A										
	1						PORTION OF A MAJOR FACILITY EXPANSION (INCLUDING NEW						ROOF				
WI-0248	ENBRIDGE ENERGY	9/22/2008	TANKS T05, T09				PIPELINES)	EXTERNAL FLOATING ROOF TANK	0.49	T/MO	12 MO. AVG.	1	LANDING	12 MO. AVG.	0		
							NEW EXTERNAL FLOATING ROOF TANK. PROCESS T35 -					1					
	1						EXTERNAL FLOATING ROOF TANK (8,673,426 GAL; 2008)										
	1																
	1						PROJECT ALSO CONSIDERED A PORTION OF A MAJOR FACILITY						LANDING				
WI-0249	ENBRIDGE ENERGY	8/22/2008	TANK T35				EXPANSION (INCLUDING NEW PIPELINES)	EXTERNAL FLOATING ROOF TANK	0.53	T/MO	12 MO. AVG.	1	EVENT	12 MO. AVG.	0		
1110247				I		1	THE MAN (MICHAEL MAN)	The state of the s			12 MO. AVG.	f		(AVERAGE			
	1		1				8.673.426 GAL CAPACITY EACH. EXTERNAL FLOATING ROOF			1	EXCLUDING			OVER ALL NEW /			
	1		T36-T40 CRUDE OIL				TANKS.				LANDING		LANDING	MODIFIED			
WI-0251	ENBRIDGE ENERGY	7/21/2009	STORAGE TANKS				UP TO 200 TURNOVERS / YEAR.	EXTERNAL FLOATING ROOF TANK	0.53	T/MO	EVENTS	1	EVENT/YR.		0		
	1		1				· ·						1				
	1	1	F01 - NEW AND MODIFIED	1	1	1		USE OF AN INSTRUMENT BASED LEAK DETECTION	1	1	1	1	1	1			
	1		TANKS, NEW PIPELINES.				VOC LEAKS FROM NEW AND MODIFIED TANK PIPING, NEW	AND REPAIR (LDAR) PROGRAM, COMBINED WITH		1							
	1		AND ASSOCIATED				PIPING MANIFOLDS. AND OTHER NEW PIPING, PUMPS, VALVES	NON-INSTRUMENTAL METHODS (SIGHT, SOUND AND	d .	1							
WI-0251	ENBRIDGE ENERGY	7/21/2009	FUGITIVE VOC				ETC. ASSOCIATED WITH THE NEW PIPELINES.	SMELL), AND GOOD OPERATING PRACTICES.	lo	1		0			0		
WY-0071	SINCLAIR REFINERY	10/15/2012	Storage Tank		100	MMbbls	intermediate/gasoline storage tank	External Floating Roof Tank	0	+		0	+	 	0		